** M	0.475			n. 40 = 0
L Number		Search Text (313/163).CCLS.	USPAT	Time stamp 2003/10/14 15:03
1 26	33	dakin-james-t.in. leonard-james-a.in.	USPAT;	2003/10/14 15:11
1 1		mucklejohn-stuart-a.in.	US-PGPUB	1
1.07		ormandlaky-gergely.in.		
27	1	20030102808.did.	USPAT;	2003/10/14 15:11
28	15	((313/163).CCLS.) and gas	US-PGPUB USPAT;	2003/10/14 15:11
		,	US-PGPUB	1
1 29	1	20030102808.did. and gas	USPAT;	2003/10/14 15:12 :
30		20020120000 1:1	US-PGPUB	
1 1	1	20030102808.did. and gas	USPAT; US-PGPUB	2003/10/14 15:17
. 31	226	(313/571).CCLS.	USPAT;	: 2003/10/14 15:33 ;
1			US-PGPUB	
· 32 I.	7247	(445/\$andmercurysame(fill\$6)).CCLS. ("445").CLAS.	USPAT	2003/10/14 15:34
1 3 4	253	("445").CLAS.) and mercury same fill\$7	USPAT;	2003/10/14 15:34   2003/10/14 15:37
1	200		US-PGPUB;	12003/10/14 13:3/
1			EPO; JPO;	1
T			DERWENT;	
35	9.8	(445/9).CCLS.	IBM_TDB USPAT;	2003/10/14 15:57
1 33	, ,	(140/3).0000.	US-PGPUB	2003/10/14 13:3/
36	54	(313/365).CCLS.	USPAT;	. 2003/10/14 15:57
4			US-PGPUB	٠.
1 -	24	(((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/24 16:49
1 1		(313/640)).CCLS.) and ceramic and motal adj halide and (rare adj earth)	US-PGPUB; EPO; JPO;	T
		. aaj narrae una (rare aaj enren)	DERWENT;	
1			IBM TDB	·
	1	((((313/486) or (313/487) or (313/636) or	USPĀT;	'2002/10/24 16:50 <sub>1</sub>
, ,		(313/640)).CCLS.) and ceramic and metal	US-PGPUB;	'
1		adj halide and (rare adj earth)) and molar adj (percent "%")	EPO; JPO; DERWENT;	i
1 1		, ,,	IBM TDB	
i- i	1188	((313/486) or (313/487) or (313/636) or	USPAT;	12002/10/24 18:40
		(313/640)).CCLS.	US-PGPUB;	1
1			, EPO; JPO; DERWENT;	
1			IBM TDB	
' - i	1188	((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/24 18:40
' I		(313/640)).CCLS.	· US-PGPUB;	
1			EPO; JPO; DERWENT;	1
1			'IBM_TDB	T T
1 = 1	0	("1317 and ceramic").PN.	USPĀT;	2002/10/24 18:41
1 1			US-PGPUB;	
1			EPO; JPO; DERWENT;	
1			IBM TOB	1
	125	(((313/486) or (313/487) or (313/636) or		2002/10/24 18:44
1	1	(313/640)).CCLS.) and ceramic	US-PGPUB;	T .
1	i		EPO; JPO; DERWENT;	1
1			IBM TDB	1
1-		(((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/24 18:44
1	1	(313/640)).CCLS.) and ceramic	US-PGPUB;	I T
			EPO; JPO;	1
1			DERWENT;	!
1 -	109 :	(((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/24 18:44
	1	(313/640)).CCLS.) and ceramic and lamp	US-PGPUB;	1
	1		EPO; JPO;	1
1 C	T		DERWENT;	1
1 -	80	((((313/486) or (313/487) or (313/636) or	IBM TDB USPAT;	2002/10/24 18:49
1		(313/640)).CCLS.) and ceramic and lamp)	US-PGPUB;	1
1		and (mercury hg)	EPO; JPO;	1
I i			DERWENT;	1
			IBM_TDB_	J

		74 (((((313/486) or (313/487) or (313/636) or	USPAT;	72002/10/24 18:53
	'	(313/640)).CCLS.) and ceramic and lamp)	US-PGPUB;	I to
	1		: EPO; JPO;	
1	1	tl magnesium mg beryllium be calcium ca	DERWENT;	1
		strontium sr barium ba radium ra)	IBM TDB	
		41 (4/4/4212 (40C) (212 (402) (212 (62 C)		2000/10/04 10-55
	1		USPAT;	2002/10/24 18:55
1	ï	or (313/640)).CCLS.) and ceramic and lamp)	US-PGPUB;	
		and (mercury hg)) and (sodium na thallium	. EPO; JPO;	1
1	ļ	tl magnesium mg beryllium be calcium ca	DERWENT;	
i .		strontium sr barium ba radium ra)) and	IBM TDB	1 .
	1	h-21d-	113/1_100	
		halide	i	
' -	, t	15 ((((((((313/486) or (313/487) or (313/636)	USPAT;	2002/10/24 18:55
1		or (313/640)).CCLS.) and ceramic and lamp)	US-PGPUB;	1
		and (mercury hg)) and (sodium na thallium	EPO; JPO;	1
1	4	tl magnesium mg beryllium be calcium ca	DERWENT;	
				The state of the s
	'	strontium or barium ba radium ra)) and	IBM_TDB	. 1
1	1	halide) and "%"		1
		15 ((((((((313/486) or (313/487) or (313/636)	USPAT;	2002/10/24 18:56
		or (313/640)).CCLS.) and ceramic and lamp)	. US-PGPUB;	
1	i i	and (mercury hg)) and (sodium na thallium	EPO; JPO;	
	T T			
	'		DERWENT;	1 3
	1	.strontium sr barium ba radium ra)) and	1BM_TDB	1
		halide) and "%"	I .	
-		21. (((((((313/486) or (313/487) or (313/636)	USPAT;	2002/10/25 09:53
T	1		US-PGPUB;	1
	1	and (mercury hg)) and (sodium na thallium	EPO; JPO;	.1
1	1	and (mercury mg); and (source nd thairium	DEO, OFO;	
1	1	tl magnesium mg beryllium be calcium ca	DERWENT;	1
		strontium sr barium ba radium ra)) and	: TBM TDB	and the second s
1		halide) and (percent "%")		1
	1	0!(((((((313/486) or (313/487) or (313/636)	USPAT;	2002/10/25 09:55
		or (313/640)).CCLS.) and ceramic and lamp)	US-PGPUB;	2002/20/20 03:00
				1
	1	and (mercury hg)) and (sodium na) and	EPO; JPO;	
1		(thallium and tl) and (magnesium mg	DERWENT;	1
1		beryllium be calcium ca strontium sr	1BM TDB	1
	1	, barium ba radium ra)) and halide) and		
F.		(percent "%")		i contract of the contract of
				1
' -	1	0 (((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/25 09:56
		(313/640)).CCLS.) and ceramic and lamp and	US-PGPUB;	
	,	(mercury hg) and (sodium na) and (thallium	EPO; JPO;	
	1.	and tl) and (magnesium mg boryllium be	DERWEN'T;	The state of the s
1		, calcium ca strontium sr barium ba radium	IBM TDB	
			100 - 100	, 1
1	1	ra) and halide and (percent "%")	1	
7		6 (((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/25 10:43 !
	'	(313/640)).CCLS.) and ceramic and lamp and	US-PGPUB;	
1	1	(mercury hg) and (sodium na) and (thallium	EPO; JPO;	1
	i i	;tl) and (magnesium mg beryllium be calcium		1
1				
1		.ca strontium sr barium ba radium ra) and	IBM_TDB	1 2
	1	halide and (percent "%")	I.	at a second of
' -		7 (((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/25 10:54
1		(313/640)).CCLS.) and ceramic and lamp and	US-PGPUB:	
	'	'(mercury hg) and (sodium na) and (thallium		1
	1	'tl) and halide and (percent "%")	DERWENT;	1
1	1	ray and natitue and (percent s)		
			1BM_TDB	1
' ~	'	6 · ((((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/25 10:55
1	1	(313/640)).CCLS.) and ceramic and lamp and	US-PGPUB:	T .
	1	, (mercury hg) and (sodium na) and (thallium		The second secon
1		tl) and halide and (percent "%")) and	DERWENT;	
1	1			
	1	, (magnesium mg beryllium be calcium ca		1
		strontium sr barium ba radium ra)	I .	1
-		15 (((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/25 10:55
	1	(313/640)).CCLS.) and ceramic and lamp and	US-PGPUB;	1
		' (mercury hg) and (sodium na) and (thallium	EPO; JPO;	1
		(mercury my) and (source ma) and (thaillum		
		tl) and halide	DERWENT;	
1	1	•	IBM_TDB	1
1 -	1	13   ((((313/486) or (313/487) or (313/636) or	USPAT;	. 2002/10/25 11:14:
		(313/640)).CCLS.) and ceramic and lamp and	US-PGPUB;	
		(mercury hg) and (sodium na) and (thallium	EPO; JPO;	
		till and halidal and (magnosium		1
1	1	tl) and halide) and (magnesium mg	DERWENT;	
1		beryllium be calcium ca strontium sr	IBM_TDB	
		barium ba radium ra alkaline adj earth)	1	1

		7 ((((((313/486) or (313/487) or (313/636) or		2002/10725 10:59
		(313/640)).CCLS.) and ceramic and lamp and		1
1	1	(mercury hg) and (sodium na) and (thallium	EPO; JPO;	
1	1	tl) and halide) and (magnesium mg	DERWENT;	1
1	1	beryllium be calcium ca strontium sr	IBM_TDB	i
1	1	(barium ba radium ra alkaline adj carth))		
	i i	not (((((313/486) or (313/487) or	1	1
1		(313/636) or (313/640)).CCLS.) and ceramic	Î	T .
1	1	and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (percent	1	
1	1	"%")) and (magnesium mg beryllium be		1
I .	1	calcium ca strontium sr barium ba radium	1	1
	1	ra))	I .	-
		5 5698948.URPN.	USPAT	2002/10/25 11:14
	1	2 5698948.URPN. and ceramic and lamp and	USPAT	2002/10/25 11:14
'	1	(mercury hg) and (sodium na) and (thallium	,	
1	1	tl) and halide	1	1
1 -		2 (5698948,URPN, and ceramic and lamp and	USPAT;	2002/10/25 12:47
i		(mercury hg) and (sodium na) and (thallium	US-PGPUB;	1
	1	tl) and halide) and (magnesium mg	EPO; JPO;	1
	1	beryllium be calcium ca strontium sr	DERWENT;	
1		barium ba radium ra alkaline adj earth)	, IBM TDB	1
-	1	10 ("3248590"   "3317778"   "3558963"	USPAT	2002/10/25 11:28
		"3761758"   "3840767"   "3867665"	1	
	,	"3898504"   "4769576"   "5394059"		1
	5	\"5451838").PN.		i i
' -		59 ceramic and lamp and (mercury hg) and	USPAT;	2002/10/25 13:23
1		(sodium na) and (thallium tl) and halide	US-PGPUB;	1
1	1	and (magnesium mg beryllium be calcium ca	EPO; JPO;	1
		strontium sr barium ba radium ra alkaline	DERWENT;	1
	1	(adj earth) and (rare adj earth lanthanoid)	IBM_TOB	
: -		59 ceramic and lamp and (mercury hg) and	USPĀT;	, 2002/10/26 15:00
i		(sodium na) and (thallium tl) and halide	US-PGPUB;	1
	į	and (magnesium mg beryllium be calcium ca	EPO; JPO;	The state of the s
		strontium sr barium ba radium ra alkaline	DERWENT;	1
		adj earth) and (rare adj carth lanthanoid)	IBM TDB	2002/10/25 15:31
		O ceramic and lamp and (mercury hg) and	USPAT;	2002/10/25 15:31
1		(sodium na) and (thallium tl) and halogen	US-PGPUB; EPO; JPO;	T. Control of the Con
	1	not halide and (magnesium mg beryl!ium be calcium ca strontium sr barium ba radium	DERWENT;	
		ra alkaline adj earth) and (rare adj earth	'IBM TDB	
		; lanthanoid)	100-100	1
1 =	'	7 (((313/486) or (313/487) or (313/636) or	USPAT;	. 2002/10/25 17:47 (
		(313/640)).CCLS.) and molar adj fraction	US-PGPUB:	
1		1	EPO; JPO;	
		The state of the s	DERWENT;	
,		1	IBM TDB	
' -		5 (((313/486) or (313/487) or (313/636) or	USPAT;	2002/10/25 17:55
	1	(313/640)).CCLS.) and PCA with ceramic	US-PGPUB;	
1	:		EPO; JPO;	1
			DERWENT;	1
		1	IBM_TDB	
1		2 '("5698948").PN.	USPAT;	2002/10/25 17:55
i	1	T .	US-PGPUB;	
1		The state of the s	EPO; JPO;	1
i .	1		DERWENT;	
1	!		IBM TDB	Caranga and an art of
-	1	9 alumina not ceramic and lamp and (mercury	USPAT;	2002/10/26 15:25
	-	hg) and (sodium na) and (thallium tl) and	· US-PGPUB;	1
	- 1	halide and (magnesium mg beryllium bc	, EPO; JPO;	1
1	1	calcium ca strontium sr barium ba radium	DERWENT;	1
	1	'ra alkaline adj carth) and (rare adj carth	IBM_TDB	1
	1	lanthanoid) 0 PCA not alumina not ceramic and lamp and	USPAT;	2002/10/26 15:28
1		(mercury hg) and (sodium na) and (thallium	US-PGPUB;	1 005/10/00 13:50 [
Į.		tl) and halide and (magnesium mg beryllium	EPO; JPO;	1
		be calcium ca strontium sr barium ba	DERWENT;	1
,		, radium ra alkaline adj earth) and (rare	IBM TDB	
1	- 2	adj earth lanthanoid)		1
	- 1	and the second of the second o		

	1	142 Tamp and (mercury hg) and (sodium na) and	. USPAT;	12002710/26-15:28
1		(thallium tl) and halide and (magnesium mg	US-PGPUB;	1
1	1	beryllium be calcium ca strontium sr	EPO; JPO;	
	-	barium ba radium ra alkaline adj earth)	DERWENT;	1
	1	and (rare adj earth lanthanoid) 70 not alumina not ceramic and lamp and	USPAT;	2002/10/26 15:28
	1		US-PGPUB;	1
	1	tl) and halide and (magnesium mg beryllium	EPO; JPO;	1
		be calcium ca strontium sr barium ba	DERWENT;	1
		radium ra alkaline adj earth) and (rare	IBM_TDB	
		adj earth lanthanoid) 4 not alumina not ceramic and lamp and	USPAT;	2002/10/26 15:30
1.	į.	(mercury hg) and (sodium na) same	US-PGPUB;	2002/10/20 13:30
1	,	(thallium tl) same halide same (magnesium	EPO; JPO;	
I.	1	mg beryllium be calcium ca strontium sr	. DERWENT;	
1		barium ba radium ra alkaline adj earth)	TBM_TDB	1
	1	<pre>same (rare adj earth lanthanoid) 4   lamp and (mercury hg) and (sodium na) same</pre>	USPAT;	2002/10/26 15:51
	1		US-PGPUB;	1 200%/10/20 13.31
	,	mg beryllium be calcium ca strontium sr	EPO; JPO;	' i
	1	barium ba radium ra alkaline adj earth)	DERWENT;	1
1		same (rare adj earth lanthanoid) not	, IBM_TDB	1
	1	alumina not ceramic	· transm	1 2002 (12 (25 15 51
	Ī	70   lamp and (mercury hg) and (sodium na) same (thallium tl) same halide same (magnesium	USPAT; US-PGPUB;	2002/10/26 15:51
		mg beryllium be calcium ca strontium sr	EPO; JPO;	1
		barium ba radium ra alkalino adj earth)	DERWENT;	1
1		same (rare adj earth lanthanoid cesium cs)	. IBM_TDB	
-		9 lamp and (mercury hg) and (sodium na) same	USPAT;	2002/10/26 15:57
1		(thallium t1) same halide same (magnesium mg boryllium be calcium ca strontium sr	US-PGPUB;	i '
		barium ba radium ra alkalino adj earth)	DERWENT;	1
·	1	, same (rare ad) earth lanthanoid) and	IBM TDB	
1	1	(cesium cs)		
-		5 lamp and (mercury hg) same (sodium na)	USPAT;	2002/10/26 16:01
1	1	'same (thallium tl) same halide same	US-PGPUB;	1
	d.	(magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline	EPO; JPO;   DERWENT;	
1		adj earth) same (raro adj earth	IBM TDB	
i.	1	lanthanoid) and (cesium cs)		
<u> </u>		1 lamp and (mercury hg) same (sodium na)	USPAT;	, 2002/10/26 15:55
	1	same (thallium tl) same halide same	US-PGPUB;	
i .		'(magnesium mg beryllium be calcium ca 'strontium sr barium ba radium ra alkaline	EPO; JPO;	1
1		'adj earth) same (rare adj earth	DERWENT;	1
1		lanthanoid) same (cesium cs)	1	1
-		3   lamp and (mercury hg) and (sodium na) same	USPAT;	, 2002/10/26 16:25
		(thallium t1) same halido same (magnesium	US-PGPUB;	1
	1	mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth)	EPO; JPO;	
	1	same (rare adj earth lanthanoid) same	DERWENT;	
	i	(cesium cs)	101, 100	,
-	1	38 lamp and (mercury hg) and (sodium na) same	· USPAT;	2002/10/26 16:34
1	4.	(tha)lium tl) same halide same (magnesium	US-PGPUB;	1
1	1	mg beryllium be calcium ca strontium sr	EPO; JPO;	
1		barium ba radium ra alkaline adj earth) same (cerium ce praseodymium pr neodymium	DERWENT;	Y
		nd promethium pm samarium sm europium cu	IBM_TDB	1
	1	gadolinium gd terbium tb dysprosium dy	t.	
	4	holmium ho erbium er thulium tm ytterbium	,	1
	,	yb lutetium lu hafnium hf lanthanum la)	1	
		same (cesium cs)	6	

Same (thellium t1) same halide same (magnesium mg beryllium be calcium ca strontium sr bartum be radium ra alkaline adjearth) same (cerium co prasocolymium pr neodymium nd promethium gm samarium sm dysprosium dy holmium ho erbium cr thulium tm ytterbium by Diutetium lu hafnium hf lanthanum la) same (cesium cs)   USPAT;   US	1-2-	- 17 35	lamp and (mercury hg) same (sodium na)	TUSPAT;	2002/10/26 18:45
#FOO JPC: strontium sr barium ba readium ra alkaline adj earth) same (cerium co prasocodymium pr neodymium dy nointium ba erabium to the ytterbium by luterbium to the ytterbium by luterbium to the ytterbium by luterbium to lanthanum la) same (cesium cs)  696   313/5 and quartz with ceramic  0   lamp same (ceramic alumina) and (mercury ind) same (codium na) same (thallium ti)	1				, 2002/10/20 10.45
Strontium sr barium be radium ra alkaline adjearth) same (cerium corporated) proceedings of the process of the	1			EPO; JPO;	1 1
necdymium of promethium pm samarium sm europium eu gadolinium gd terbium th dysprosium dy holmium ho erbium er thulium tm ytterbium by lutetium lu hafinom holm same (cesium cs)   USPAT;   US	3.			DERWENT;	Ÿ.
curopium eu gadolinium gd terbium th   dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu hafnium hf   lanthanum la) same (cesum cs)   USPAT:	T			IBM_TDB	
dysprosium dy holmium ho erbium or thulium tm ytterbium by lutetium lu hafinum hi lanthanum la) same (cesium cs)   USFAT; US-PGPUB; EPO; JOO; JOO; JOO; JOO; JOO; JOO; JOO; J	1	į.			1
tm ytterbium yb luterium lu hafnium hf lanthanum la) same (cesum cs)  696 313/\$ and quartz with cerumic  - 0   Jamp same (ceranic alumina) and (mercury hg) same (sodium na) same (thallium ti) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra aikaline adj earth) same (cerium the prasodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium th dysprosium dy holmium ho erbium er thullum tm ytterbium yb luterium lu hafnium hil same (cerium calumina) and (mercury hg) same (sodium na) same (thallium ti) same (cerium calumina) and (mercury hg) same (sodium na) same (thallium ti) same (cerium calumina) and (mercury hg) same (sodium na) same (thallium ti) same (cerium calumina) and (mercury hg) same (sodium na) same (thallium ti) same (cerium calumina) and (mercury hg) same sodium na) same (thallium ti) same (cerium calumina) and (mercury hg) same sodium na) same (thallium ti) same (cerium calumina) and (mercury hg) same sodium na) same (cerium lu hafnium hil nathanum la) same (cerium lu hafnium hil hanthanum la) same (cerium cs) same lumina deterbium lu hafnium hil lanthanum la) same (cesium cs) same lumina deterbium lu hafnium hil lanthanum la) same (cesium cs) same lumina deterbium lu hafnium hil lanthanum la) same (cesium cs) same lumina deterbium lu hafnium hil lanthanum la) same (cesium cs) same lumina deterbium lu hafnium hil lanthanum la) same (cesium cs) same lumina lumin		!		1	1.00
		1		1	
US-PGFUBE   EPO, JPO;   DERWENT;   THM TDB   USPAT;   U	-			Ť.	1
Proj. JPC    Proj.	, -	696	313/\$ and quartz with ceramic		2002/10/26 16:45
Comparison   Com		1			T. Control of the Con
1   0   Jamp same (ceramic alumina) and (mercury hg) same (acodium na) same (thallium tl) same halide same (angestum mg boryllium be calcium ca strontium sr barium ba radium ra alkaline adjearth) same (cerium pm somarium sm europium eu gadolinium gd terbium th dysprosium dy holmium ho erbium er thulium tm ytterbium be (acapium cas) same halide same (magnosium mg beryllium be calcium cas strontium sr barium ba radium ra alkaline adjearth) same (cerium cas) same halide same (magnosium mg beryllium be calcium cas strontium sr barium ba radium ra alkaline adjearth) same (cerium cas) same halide same (magnosium mg beryllium be calcium cas strontium sr barium ba radium radium ful abparosium dy holmium ho erbium er thulium tm ytterbium by butetium lu hafnium hi lanthanum la) same (cerium cas) same halide same (magnosium mg beryllium be calcium cas strontium sr barium ba radium radium ful abparosium dy holmium ho erbium er thulium tm ytterbium by lutetium lu hafnium hi lanthanum la) same (cerium cas) same halide same (cerium cas) same halide same (magnosium mg beryllium be calcium sim europium eu gadolinium gd terbium the dysprosium dy holmium ho erbium er thulium tm ytterbium by lutetium lu hafnium hi lanthanum la) same (cerium cas) same halide same (cas) same halide same (cerium cas) same halide same (magnosium mg beryllium be calcium sith magnosium mg beryllium be calcium sith same (cerium cas) same halide same (cerium cas) s	1				, '
1	1		I		7
### same halide same (magnesium mg bcryllium be calcium ca strontium br barium br aradium ra aikaline adj earth) same (cerium ce prasocdymium pr neodymium nd prosenthum pm samarium sm europium eu gadolinium gd terbium th dysprosium dy holmium hn erbium hafnium hf lanthanum la) same (cesium cs)    1	1 -	0	lamp same (ceramic alumina) and (mercury		2002/10/26 16:53 ;
be calcium ca strontium sr barium ba radium ra alkalino adjearth) same (cerium ce prasocdymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium th dysprosium dy holmium ho erbium er thulium tm ytterbium by lutetium lu hafnium hf lanthanum la) same (cesium cs)   USPAT;		1			1.
radium ra aikaline adj earth) same (cerium ce prasocdymium prime prosectium pm samarium sm europium eu gadolinium gd terbium to dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu hafnium fi lanthanum lai same (cesium cs) 1 lamp and (ceramic alumine) and (mercury hg) same (sodium na) same (thallium tl) same halide same (magnosium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj carth) same (cerium le trebium tu dysprosium dy holmium nd promethium pm samarium sm europium eu gadolinium gd terbium tu dysprosium dy holmium ho erbium le tribium tu dysprosium dy holmium ceramic lis-Perium	1	-1			7
ce prasocdymium pr neodymium nd promethium   pm somarium sm europium eu gadolinium gd	1				
pm samarium sm europium eu gadolinium gd terbium to dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu hafnium hi flanthanum la) same (sesium cs)   1   1   1   1   1   1   1   1   1				IBM_TDB	1
terbium th dysprosium dy holmium ho ecbium er thulium th ytterbium yb lutetium lu hafnium hf lanthanum la) same (cesium cs) 11 [lamp and (ceramic alumina) and (mercury hg) same (sodium na) same (thallium t.)   same halide same (magnosium mg beryllium be colcium ca strontium sr barium ba radium ra alkaline adj carth) same (cerium pm samerium se europium eu gadolinium gd er thulium tm ytterbium yb lutetium hafnium hf lanthanum la) same (cesium cs)   13194   313/5 and lamp   same (cesium cs)	1	1		I	
Tangan and (ceramic alumina) and mercury hg) same (sodium na) same (cesium cs)   SPAT;   1   Same halide same (magnosium mg beryllium be calcium ca strontium sr barium ba radium ra iskaline adjocarth) same (cerium pm samarium me ungolum mg beryllium pm samarium me ungolum me ungolum inium gd terbium th dysprosium dy holmium ho erbium hathium hi lanthanum la) same (cesium cs)   SPAT;   1   SPAT;   1   SPAT;   1   SPAT;   1   SPAT;   1   SPAT;   2   SPAT;   2   SPAT;   1   SPAT;   1   SPAT;   1   SPAT;   1   SPAT;   2   SPAT;   1   SPAT;   1   SPAT;   1   SPAT;   2   SPAT;   1   SPAT;   2   SPAT;   1   SPAT;   1   SPAT;   1   SPAT;   2   SPAT;   1   SPAT;   1   SPAT;   2   SPAT;   1   SPAT;   1   SPAT;   1   SPAT;   2   SPAT;   1   SPAT;   1   SPAT;   2   SPAT;   1   SPAT;   2   SPAT;   1   SPAT;   2   SPAT;   2   SPAT;   2   SPAT;   2   SPAT;   3   SPAT;	1	1			
1   lamp and (ceramic alumina) and (mercury hg) same (sodium na) same (thallium tl)   Se-FegUs; same halide same (magnosium mg beryllium   SepTi   Se	1	1		3	4
hg) same (sodium na) same (thallium tl)   same halide same (magnosium mg) beryllium   be calcium ca strontium sr barium ba   radium ra alkaline adj carth) same (cerium     ce praseodymium pr neodymium nd promethium     pm samarium ms europium eu gadolinium dd     etribium th dysprosium dy holmium to erbium     EPO: JPO: DERWENT;     IFM TDB     USPAT;   2002/10/26 17:01     USPAT;   2002/10/26 17:01     USPAT;   2002/10/26 17:01     USPAT;   2002/10/26 17:01     EPO: JPO: DERWENT;     EPO: JPO: DERWENT;	1		hafnium hf lanthanum la) same (cesium cs)		
Same halide same (magnoslum mg beryllium   EPO, JPC   DERMENT;   radium ra alkaline adj carth) same (cerium radium ra alkaline adj carth) same (cerium radium radium radium radium radium radium my meuropium eu gadolinium gd terbium the dysprosium dy holnium ho erbium   er thulium tm ytterbium yb lutetium lu hathium fi lanthanum la) same (coslum cs)   USPAT;	_	1 11			12002/10/26 16:59 1
bc calcium ca strontium sr barium ba radium ra alkaline adj carth) same (cerium; ce praseodymium pr noodymium nd promethium pm samerium sm europium eu gadolinium gd terbium the dysprosium dy hoimium ho erbium; er thulium tm ytterbium by lutetium lu hafnium hf lanthanum la) same (cosium cs)		1			
radium ra alkaline adj carth) same (cerium TRM TUB ce praseodymium promochium promochium promochium promochium promochium promochium promochium same uropium eu gadolinium gd terbium th disprosium dy holmium ho erbium ler thulium tm ytterbium yb lutetium lu hathium fi lanthanum la) same (cosìum cs)  - 13194 313/8 and lamp 313/8 and lamp USPAT; USPAGPUB; EPG; JPC; DEWENT; LEPG; JPC; DERNENT; LEPG; JPC; LEPG; LEPG	1				
pm samerium sm europium eu gadolinium gd terbium to dysprosium dy holmium ho erbium to erbium to dysprosium dy holmium ho erbium to erbium color to erbitum to erbium color to erbitum to erbitum color to erbitum to erbitum color to e	1		radium ra alkaline adj earth) same (cerium	IBM TDB	· .
terbium th dysprosium dy hointium ho erbium   er thulium th querbium by lutetium lu   hafnlum hf lanthanum la) same (cosium cs)   313/4   313/5 and lamp			ce praseodymium pr neodymium nd promethium	1	,
er thulium tm ytterbium yb lutetium lu hafnium hi dianthanum ia) same (cosium cs)		1			
hafnlum hf lanthanum la) same (cosium cs)  -   33194   313/5 and lamp		1		t.	
-	1	1		1	1
PROJ JPC    DERMENT;   IFM TDB   USPAT;   USP-GFUB;   DERMENT;   IFM TDB   USPAT;   USP-GFUB;   DERMENT;   IFM TDB   USPAT;   USP-GFUB;   USPAT;   USP-GFUB;   USPAT;   USPA	1 -	. 13194		USPAT;	2002/10/26 17:01
DEMMENT;   IFM TOB   USPAT;   2002/10/26 17:01   USPAT;   2002/10/26 17:01   USPAT;   USPAT			r ·		. 1
TRM TDB   USPAT;			ı		
- 2253 (313/\$ and lamp) and coramic USPĀT; 2002/10/26 17:01 USPĀT; 2002/10/26	1		ı		4.
US-PGFUB;   EPG; JPG;   DEWRNT;   TEM TDB   USPAT;   US	1 _	2253	(313/S and lamn) and coramic		2002/10/26 17:01
PEPG JPPG   DERWENT;   TEM TDB   VSPAT;   US-PGPUB;   DERWENT;   TEM TDB   VSPAT;   US-PGPUB;   DERWENT;   TEM TDB   VSPAT;   US-PGPUB;   USPAT;	1	1	, ,		!
-   202 (313/8 and lamp) and coramic with (improve gradual sequence of the provided sequence o		1		EPO; JPO;	_ I
202 (313/8 and lamp) and coramic with (improve   USPAT; advantage advantageous improvement)   SPORT					1
advantage advantageous improvement)    Septiment   US-CEPUUS		202	/212/6 and lamp) and sociation with /immercia		2000/10/06 17:01
EPO; JPC; DERMENT; TEM TDB USPAT; 2002/10/26 19:09 USPAT; 2002/10/26 19:09 USPAT; 2002/10/26 19:09 USPAT; 2002/10/26 19:09 USPAT; 2002/10/26 19:50 USPAT; 2002/10/26 19:00 USPAT; 2002/10/26 19:50 USP		202			72002/10/26 17:01
DERMENT;   TEM TOB	1	1	i i i i i i i i i i i i i i i i i i i		
- 2 ("5698948").PN. USPĀT; 2002/10/26 19:09 USPĀT; 2002/10/26 18:50 USPĀT; 2002/10/26 19:02 USPĀT; 2002/10/26 19:59 USPĀT; 2002/10/26 19:50 USPĀT; 200	'			, DERWENT;	
US-PGPUH; EPG JFG; DERRENT; (313/486) or (313/487) or (313/636) or US-PGFUH; (313/640)).CCLS.  2 (((313/486) or (313/487) or (313/636) or US-PGFUH; EPG JFG; DERRENT; EPG JFG; DERRENT; EPG JFG; DERRENT; EPG JFG; DERRENT; IEM TDB ' 2002/10/26 18:50 US-PGFUH; EPG JFG; DERRENT; IEM TDB ' 2002/10/26 19:02 US-PGFUH; ENGLIPPE CONTROL TO CONTROL T	4	'			
EPG; JPG: DERRENT; IEM TDB USPAT; 2002/10/26 18:50 USPAT; 2002/10/26 19:02 USPAT; 2002/10/26 19:59 USPAT; 2002/10/26 19:50 USP	, -	2 .	("5698948").PN.		2002/10/26 19:09
DERMENT;	1				1
TEM TDB   (313/486) or (313/487) or (313/636) or   USPAT;   USPA	1	· 10			1
-   1188   ((313/486) or (313/487) or (313/636) or   USPĀT;   2002/10/26 18:50   USPĀGT,   2002/10/26 19:50   USPĀGT,   2002/10/26   USPĀGT,   2002/10/26   USPĀGT,   2002/10/26   USPĀGT,   2002/10/26   USPĀGT,   2002/	1				
EPG, JPG;   DERMENT;   IBM TDB	' -	1188		USPAT;	,2002/10/26 18:50
DERMENT;	÷		(313/64U)).CCLS.		:
TBM_TDB   103/486) or (313/487) or (313/636) or USFAT;   2002/10/26 19:02   103/486) or USFAT;   2002/10/26 19:02   103/487	L.	١ .			1
- 2'(((313/486) or (313/487) or (313/636) or USPĀT; 2002/10/26 19:02     (313/640), CCLS.) and holmium with bush of the control of the contro	1				1
(313/640)).CCLS.) and holmium with   US-PGFUB;	' -	2 '			'2002/10/26 19:02!
improve)   DERWENT;	1	1			1
THM TDB     THM TDB     THM TDB       THM TDB					1
- 1 (((313/486) or (313/487) or (313/636) or USPĀT; 2002/10/26 19:59 (313/640)). CCLS.) and calcium with halide (WS-PGFUB; with (improvement advantage advantageous (FPO; JPO; improve)	†	1 1	Impi ove)		
(313/640).CCLS.) and calcium with halide US-PGPUD; with (improvement advantage advantageous EPO; JPO; improve) DERWENT;		1 1	(((313/486) or (313/487) or (313/636) or		2002/10/26 19:59
improve)   DERWENT;			(313/640)).CCLS.) and calcium with halide		
	1	1	with (improvement advantage advantageous		1
IBM TDB	1	1	improve)		1
		1		TRW_LDR_	i

T		1	(((313/486) or (313/487) or (313/636) or	USPAT:	- 72003/06/18	12:59 1
i		- '	(313/640)).CCLS.) and power adj factor	US-PGPUB;	1	1
1	1			EPO; JPO;		
		-		DERWENT;		i
		'		IBM TDB USPĀT:	2002/10/27	1
		3.5	dakin-james-t.in. leonard-james-a.in. mucklejohn-stuart-a.in.	US-PGPUB;	2002/10/2/	19:34
1	!	3	ormandlakv-gergelv.in.	EPO; JPO;	1	
3.	1		ormandraky-gergery.in.	DERWENT:		,
	1			IBM TDB		
1 -		28	(dakin-james-t.in. leonard-james-a.in.	USPAT;	. 2003/06/18	11:44 .
			mucklejohn-stuart-a.in.	US-PGPUB;	1	1
			ormandlaky-gergely.in.) and lamp	EPO; JPO;	1	- 1
1	1			DERWENT;	1	
1	1			IBM_TDB		
1 -	1	17	((dakin-james-t.:n. leonard-james-a.in.	USPAT;	2002/10/27	19:54
1	1		mucklejohn-stuart-a.in. ormandlaky-gergely.in.) and lamp) and	· US-PGPUB; . EPO; JPO;		
	1		ceramic	DERWENT;	i .	
1			Ceramic	IBM TOB		1
1 _	1	1.4	(((dakin-james-t.in, leonard-james-a.in,	USPAT;	2003/10/14	15:08 i
	1		mucklejohn-stuart-a.in.	US-PGPUB;	1	
	1		ormandlaky-gergely.in.) and lamp) and	EPO; JPO;		
1	1		ceramic) and (mercury hg)	DERWENT;		1
	1			, IBM_TDB	1	1
'-	1	0	((((dakin-james-t.in. leonard-james-a.in.	USPAT;	2003/10/13	16:45
1	1		mucklejohn-stuart-a.in.	US-PGPUB;	i	
1			ormandlaky-gergely.in.) and lamp) and	DERWENT;		1
1			ceramic) and (mercury hg)) and (sodium na)	IBM TDB	T	1
1.2	'		("5212424").PN.	USPAT:	12002/10/27	19:58
	1	/-	( SEILALA ) III.	US-PGPUB;		13.00
1	1		i	EPO; JPO;		î
1	1			DERWENT;		1
1	1		I .	IBM_TDB	1	
-	1	30	(dakin-james-t.in. leonard-james-a.in.	USPAT;	, 2003/06/18	11:44
	1		mucklejohn-stuart-a.in.	US-PGPUB;		
(1)	1		ormandlaky-gergely.in.) and lamp	EPO; JPO; DERWENT;		1
1	1			IBM TDB	'	- 1
V _	1	711	((313/486) or (313/487) or (313/640) or	USPAT:	. 2003/06/19	14.49
	1	r 4.1	(313/641)).CCLS.	US-PGPUB	1 2003/00/19	-4.47

į -			(US-2223425-\$ or US-2216252-\$ or	USPAT;	"2003/06/18 T3:09
1	5	1	US-2211590-\$ or US-2210780-\$ or	US-PGPUB	1
1	1		US-2207174-\$ or US-2181305-\$ or US-2177755-\$ or US-2177728-\$ or		
T	1	- 1	US-2177705-\$ or US-2176151-\$ or	4.	1
	T		US-2174449-\$ or US-2170066-\$ or	1	1
1	1		US-2152999-\$ or US-2151496-\$ or	1.	
			US-2143077-\$ or US-2141905-\$ or		1
911	1		US-2132273-\$ or US-2116977-\$ or	1	
1	1		US-2116678-\$ or US-2113973-\$ or US-2109984-\$ or US-2103093-\$ or	1	4
	'	1	US-2103984-\$ or US-2103093-\$ or US-2103085-\$ or US-2103053-\$ or		
	T	1	US-2103032-\$ or US-2091277-\$).did. or		4.
'	1	1	(US-2059640-s or US-2056637-s or		1
	1	1	US-2030805-\$ or US-2030402-\$ or	1	
i	1	1	US-0907598-\$ or US-0865367-\$ or		
1	1		US-2607014-S or US-2586304-S or	1	
1	1.		US-2563901-\$ or US-2563900-\$ or	i	1
			US-2563474-\$ or US-2558532-\$ or US-2534922-\$ or US-2533809-\$ or		1
1	'	- 1	US-2534927-\$ or US-25338U9-\$ or US-2494883-\$ or US-2476681-\$ or		1
1		1	US-2452518-\$ or US-2450548-\$ or	1	1
1	1	1	US-2447210-\$ or US-2445692-\$ or	1	1
1	1	1	US-2424454-\$ or US-2419902-\$ or		1
4.	1	1	US-2413940-\$ or US-2409769-\$ or	1	,
	1	1	US-2392305-\$ or US-2386277-\$ or		1
	1	1	US-2366270-\$).did. or (US-2357732-\$ or		1
	1		US-2339178-\$ or US-2331306-\$ or		1
,	1		US-2316366-\$ or US-2310866-\$ or	,	1
1.			US-2309676-\$ or US-2298581-\$ or	1	
1			US-2297940-\$ or US-2297108-\$ or US-2295040-\$ or US-2290186-\$ or		1
1		1	US-2272992-\$ or US-2269819-\$ or		1
		1	US-2264892-\$ or US-2258472-\$ or	i i	
		1	US-2255761-\$ or US-2244558-\$ or		
		-0.0	US-2235802-\$ or US-2232780-\$ or		
	1		US-2227418-\$ or US-2223426-\$ or	1	· ·
	1		US-3110556-\$ or US-3059133-\$ or		1
	1	i i	US-3054013-\$ or US-3043710-\$ or	1	T.
ž.		1	US-3025423-\$ or US-3024383-\$).did. or	1	1.
1		1	(US-3023340-\$ or US-3023339-\$ or		1
1			US-3018187-\$ or US-2966605-\$ or US-2965786-\$ or US-2965785-\$ or		
	1		US-2962616-\$ or US-2961566-\$ or	1	1
			US-2946909-\$ or US-2930934-\$ or		
			US-2919365-\$ or US-2915663-\$ or	9	
			US-2901647-\$ or US-2838705-\$ or		1
			US-2806968-\$ or US-2785327-\$ or		1
			US-2748303-\$ or US-2724070-\$ or		T.
		'	US-2721808-\$ or US-2709766-\$ or		1
1			US-2692349-\$ or US-2663823-\$ or		1
i .	1		US-263/830-\$ or US-2622221-\$ or US-3555336-\$ or US-3548238-\$ or	,	
1			US-3547680-\$).did. or (US-3544481-\$ or		4
			US-3539857-\$ or US-3530327-\$ or		
	1		US-3525864-\$ or US-3514659-\$ or	1	
1	1	1	US-3513346-\$ or US-3480819-\$ or		1
1			US-3458747-\$ or US-3452238-\$ or		1
	1		US-3435271-\$ or US-3431511-\$ or	1	4.
1	1		US-3430090-\$ or US-3430089-\$ or		1
	1		US-3424605-\$ or US-3416019-\$ or	1	1
r	1		US-3409792-\$ or US-3407325-\$ or US-3400288-\$ or US-3384775-\$ or		1
1	1		US-3379916-\$ or US-3360675-\$ or		0
1			US-3360674-\$ or US-3360673-\$ or		
1	1		US-3351796-\$ or US-3339101-\$ or	1	1
i.	1	1	US-3339100-\$ or US-3334261-\$).did. or	1	1
1			(US-3331977-\$ or US-3328620-\$ or	:	1
1			US-3317778-\$ or US-3287586-\$ or		1
			US-3274415-\$ or US-3255373-\$ or	1	1
1	1		US-3242369-\$ or US-3206632-\$ or	1	I
Sear	en Histor	v - 10	US-3153169-s or US-3141990-s or US-31531:191-92	- 1	
			05-3153219-5-01-05-3114-067-5 01 055-3079665951-66. wasp US-3778662-5 or	1	t
1			US-3778660-s or US-3771009-s or	:	1
(			TC 2771000 6 A- TC 2764040 6 A-		1

[-		'((313/486) or (313/487) or (313/640) or (313/641)).CCLS.	USPAT; US-PGPUB	2003/06/18 13	5:12
1 -		(((313/486) or (313/487) or (313/640) or	USPAT;	2003/06/18 13	3:16
	1 23	(313/641)).CCLS.) and ceramic and lamp and		10000100110	
	1	mercury and (thallium Tl) same (halogen	EPO; JPO;	I.	
1		fluorine fluoride chlorine cl chloride	DERWENT;		
1	·	bromine br bromide iodine iodide astatine	IBM TDB	1	- 1
1	ı ı	astatide at)		i	
	1 12	(((313/486) or (313/487) or (313/640) or	USPAT;	2003/06/18 13	3:17
i i			US-PGPUB;		,
	'	mercury and (thallium T1) same (halogen	EPO; JPO;	1	1
	T .	fluorine fluoride chlorine cl chloride	DERWENT;	1	1
1	i	bromine br bromide lodine lodide astatine	I TBM TDB		
1		(astatide at) and (sodium na)		i	- 1
-	1 14	(((313/486) or (313/487) or (313/640) or	USPAT;	2003/06/18 13	3:18
	1	(313/641)).CCLS.) and ceramic and lamp and	US-PGPUB;		5
1		mercury and (thallium T1) same (halide	EPO; JPO;		1
	'	, halogen fluorine fluoride chlorine cl	DERWEN'F;	1	
	1	chloride bromine br bromide iodine iodide	IBM TOB	i	
	1	'astatine astatide at) and (sodium na) same			
	1	i (halide halogen fluorine fluoride chlorine	1	1	,
1	1	cl chloride bromine br bromide iodine	1	I	
1		iodide astatine astatido at)	I .		1
, -	' 12	(((313/486) or (313/487) or (313/640) or	USPAT;	2003/06/18 13	3:28
1	1	(313/641)).CCLS.) and ceramic and	US-PGPUB;	Ĭ	
1	1	(lamp.ti,ab. and mercury and (thallium Tl)	EPO; JPO;	'	1
1		same (halide halogen fluorine fluoride	DERWENT;	1	,
1	'	chlorine cl chloride bromine br bromide	. IBM_TDB		,
1	1	'iodine iodide astatine astatide at) and		v.	- 1
	1	(sodium na) same (halide halogen fluorine			
	1	fluoride chlorine cl chloride bromine br		I .	
1		bromide iodine iodide astatine astatide		i .	- 1
1	1.0	at)	Genra.	1 2003/06/18 13	2.26
		((((313/486) or (313/487) or (313/640) or	USPAT; US-PGPUB;	. 2003/00/10 13	0120
	1	(313/641)).CCLS.) and ceramic and lamp.ti,ab. and mercury and (thallium T1)	EPO; JPO;	1	
1	1	same (halide halogen fluorine fluoride	DERWENT;		,
1	1	chlorine cl chloride bromine br bromide	1BM TDB		- 1
		iodine iodide astatine astatide at) and	100-100	4	
	:	(sodium na) same (halide halogen fluorine			i
		fluoride chlorine cl chloride bromine br			
1	1	bromide iodine iodide astatine astatido	_		,
1		at)) and (thallium Tl) same (halide	I.	'	
1	T .	halogen fluorine fluoride chlorine cl	1		
	1	. chloride bromine br bromide iodine iodide		5	
	1	, astatine astatide at) and (sodium na) same			
1		(halide halogen fluorine fluoride chiorine			
		cl chloride bromine br bromide iodine	1	1	- 1
1		iodide astatine astatide at)	ī.		
		((((313/486) or (313/487) or (313/640) or	USPAT;	2003/06/18 13	3:27
	1	(313/641)).CCLS.) and ceramic and	US-PGPUB;		i
	1	, lamp.ti,ab. and mercury and (thallium T1)	EPO; JPO;		
1		, same (halide halogen fluorine fluoride	DERWENT;	I .	1
	1	chlorine cl chloride bromine br bromide	TBM_TDB		1
1		iodine iodide astatine astatide at) and	1		
1	1	(sodium na) samo (halide halogen fluorine			
1	,	fluoride chlorine cl chloride bromine br	i .		
1		bromide iodine iodide astatine astatide	v ·		
1		'at)) and (thallium TI) same (halide	1		
1		halogen fluorine fluoride chlorine cl		h .	i
1	1	chloride bromine br bromide iodine iodide   astatine astatide at) and (sodium na) same		Į.	
i	1	(halide halogen fluorine fluoride chlorine	1		
	1	, cl chloride bromine br bromide iodine	1		
		iodide astatine astatide at) and molar		t	- 1
1	1	same (percent percentage "%")		4	
1		The Contract	1 - 1 - 1		

1		1, (((313/486) or (313/487) or (313/640) or	USPAT;	2003/06/18 13:29
1	1	(313/641)).CCLS.) and (alumina ceramic)	US-PGPUB;	
1	1		EPO; JPO;	
1			DERWENT;	A
1		chlorine cl chloride bromine br bromide	IBM TOB	1
1	1	iodine iodide astatine astatide at) and	1 2017_1110	1
	l l	(sodium na) same (halide halogen fluorine	I	
	1	fluoride chlorine cl chloride bromine br		1
				1
		bromide iodine iodide astatine astatide	'	1
		at) and molar same (percent percentage		
1	1	· "§")	ı	
, ~	1	7 (alumina ceramic) and lamp.ti,ab. and	USPAT;	1 2003/06/18 13:35
1	1	mercury and (thallium Tl) same (halide	US-PGPUB;	
		halogen fluorine fluoride chlorine cl	EPO; JPO;	The second second
1	1	chloride bromine br bromide iodine iodide	DERWENT;	
1	,	astatine astatido at) and (sodium na) same	IBM TDB	
	'	(halide halogen fluorine fluoride chlorine	-	
1		cl chloride bromine br bromide iodine		
		'iodide astatine astatido at) and molar		I
,		same (percent percentage "%")		T.
1 _	,		USPAT;	. 2003/06/18 13:38
	1			1 2003/00/10 13.30
	1	mercury and (thallium TI) same (halide	US-PGPUB;	
	1	halogen fluorine fluoride chlorine cl	EPO; JPO;	
1			DERWENT;	t.
	1	astatine astatide at) and (sodium na) same	, IBM_TDB	1
	1	(halide halogen fluorine fluoride chlorine		
1	1	cl chloride bromine br bromide iodine		
1	i	'iodide astatine astatide at) and molar	1	T. Control of the Con
		same (percent percentage "%") and	L	1
1		(beryllium be magnesium mg calcium ca	1	1
	'	strontium sr barium ba radium ral same		
	T	(halide halogen fluorine fluoride chlorine	1	1
1	1	cl chloride bromine br bromide iodine	1	1
ř	1	. iodide astatine astatide at)	1	Y
T			LIGHT M	2003/06/18 14:43
			USPAT;	. 2003/06/16 14:43
,	1	mercury and (thallium T1) same (halide	US-PGPUB;	
1.	1	halogen fluorine fluoride chlorine cl	EPO; JPO;	1
1	1	chloride bromine br bromide iodine iodide	DERWENT;	1
1	1	'astatine astatide at) and (sodium na) same	IBM_TDB	V .
1	1	'(halide halogen fluorine fluoride chlorine		
1	1	'cl chloride bromine br bromide iodine		and the second s
1	1	'iodide astatine astatide at) and molar		
i	1	same ratio same (percent percentage "%")	:	
4	1	and (beryllium be magnesium mg calcium ca		
i	i	strontium sr barium ba radium ra) same		1
	-	(halide halogen fluorine fluoride chlorine	i .	1
1	,	cl chloride bromine by bromide iodine		
		iodide astatine astatide at)		
-	!		USPAT;	2003/06/18 13:46
1	T .		US-PGPUB;	, 2003/00/10 13:46
1	1	The state of the s		
A.	1	The state of the s	EPO; JPO;	3
1	1		IBM_TDB	
1	1	0 (alumina ceramic) and lamp.ti,ab. and	USPAT;	2003/06/18 15:08
1	1	mercury and (thallium Tl) same (halide	.US-PGPUB;	
1	1	halogen fluorine fluoride chlorine cl	, EPO; JPO;	
1	1.	chloride bromine br bromide iodine iodide	DERWENT;	1
1	1	astatine astatide at) and (sodium na) same	IBM TDB	
L	4	(halide halogen fluorine fluoride chlorine	_	1
P	1	cl chloride bromine br bromide iodine		1
1	4	'iodide astatino astatide at) and molar	1	
	:	same ratio same (percent percentage "%")		W. S
1	1	and (beryllium be magnesium mg calcium ca		1
1		strontium sr barium ba radium ra) same		
1		(halide halogen fluorine fluoride chlorine		
1		cl chloride bromine br bromide iodine		
1				1
		iodide astatine astatide at)		أنا بينا در ال

,=	7 7 7 3	(alumina ceramic) and lamp.ti,ab. and	USPAT;	2003/06/18 15:14
1	1	mercury and (thallium T1) same (halide	US-PGPUB;	1
1		halogen fluorine fluoride chlorine cl	FPO; JPO;	1
1		chloride bromine br bromide iodine iodide	DERWENT;	1
		'astatine astatide at) and (sodium na) same		A.
Tr.	'	(halide halogen fluorine fluoride chlorine	1	
		cl chloride bromine br bromide iodine	j.	
1	1	iodide astatine astatide at) and molar		1
1	1	same ratio same (percent percentage "%")		1
1		and (beryllium be magnesium mg calcium ca	1	
1		strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine	1	d i
	!	cl chloride bromine br bromide iodine		
	1	iodide astatine astatide at)	1	* 4
1_	1 .	(alumina ceramic) and lamp.ti.ab. and	USPAT;	'2003/06/18 15:18 '
1	1	mercury and (thallium Tl) same (halide	US-PGPUB;	, 2003/00/10 23.10
1		, halogen fluorine fluoride chlorine cl	EPO; JPO;	
1			DERWENT;	
1	1	astatine astatide at) and (sodium na) same	IBM TDB	1
		' (halide halogen fluorine fluoride chlorine	1 - 1 - 1 - 1	ī
		cl chloride bromine br bromide jodine	1	. Y
		(liodide astatine astatide at) and molar		
1	1	same ratio same (thallium t1) and	i	1
1	1	(beryllium be magnesium mg calcium ca	T .	
4	1	strontium sr barium ba radium ra) same		1
1	1	' (halide halogen fluorine fluoride chlorine	1	7
	1	cl chloride bromine br bromide iodine	*	1
1	1	iodide astatine astatide at)	1	1
1 -	9.4	(alumina ceramic) and lamp.ti,ab. and	USPAT;	2003/06/18 15:30
ì	T	mercury and (thallium Tl) same (halide	US-PGPUB;	4
	1	halogen fluorine fluoride chlorine cl	EPO; JPO;	
1	1	chloride bromine br bromide iodine iodide	DERWENT;	T .
1		'astatine astatide at) and (sodium na) same		i .
1	'	(halide halogen fluoring fluoride chlorine	1	
	1	cl chloride bromine br bromide iodine	1	
!		iodide astatine astatide at) and		1
1		(beryllium be magnesium mg calcium ca		- i
1	1	strontium sr barium ba radium ra) same	1	1
		· (halide halogen fluorine fluoride chlorine	1	1 1
1	1	or cl chloride bromine br bromide iodine		1
1		iodide astatine astatide at)	' manam.	2003/06/18 15:24
-		mercury and (thallium Tl) same (halide	USPAT; US-PGPUB;	2003/06/18 15:24
		halogen fluorine fluoride chlorine cl	EPO; JPO;	1
1	1		DERWENT;	
	1	astatine astatide at) and (sodium na) same		1
1	1	(halide halogen fluoring fluoride chloring		1
	1	'cl chloride bromine br bromide iodine	1	
	1	'iodide astatine astatide at) and		
		(beryllium be magnesium mg calcium ca	1	
1		strontium sr barium ba radium ra) same	1.	
1	i i	' (halide halogen fluorine fluoride chlorine	1	1
1		'cl chloride promine br bromide iodine	1	1
1		'iodide astatine astatide at) ) and molar		1
1		same ratio same (thallium tl)		1
' -	1726845	molar adj ratio with weight ratio	USPAT;	2003/06/18 15:27
1	,	1	US-PGPUB;	
	1	,	EPO; JPO;	
1	1		DERWENT;	1
i		i a constant a constan	IBM TOB	1
1 =	2037	molar adj ratio with weight adj ratio	USPAT:	2003/06/18 15:29
i			US-PGPUB;	1
1			EPO; JPO;	1
1	4		DERWENT;	·
	1		IBM TOB	The second secon

=		5 ( (alumina ceramic) and lamp.ti.ab. and	USPAT;	2003/06/18	15.32
		mercury and (thallium Tl) same (halide	US-PGPUB;	1	1
		halogen fluorine fluoride chlorine cl	EPO; JPO;		1
1		chloride bromine br bromide jodine jodide	DERWENT;	1	
	1	astatine astatide at) and (sodium na) same		1	
	1		1BM_TDB	1	1
1		(halide halogen fluorine fluoride chlorine	ı		
		cl chloride bromine br bromide iodine	1		
		, iodide astatine astatide at) and		'	
1	1	(beryllium be magnesium mg calcium ca		1	
1	1	strontium sr barium ba radium ra) same	ı		
1	1	(halide halogen fluorine fluoride chlorine			
1	1	cl chloride bromine br bromide iodino	1		- 1
1	1	iodide astatine astatide at) ) and (rare	,	i	7
1		adj earth lanthanoid) same molar adj ratio	,	1	
1		and (rare adj earth lanthanoid) same			
1	1	'(halide halogen fluorine fluoride chlorine		1	1
			i	i	
		cl chloride bromine br bromide iodine	1	i	
		'iodide astatine astatide at)			1
i -		4 ' ( (alumina ceramic) and lamp.ti,ab. and	USPAT;	2003/06/18	15:33
1		mercury and (thallium Tl) same (halide	US-PGPUB;	1	i i
1	,	halogen fluorine fluoride chlorine cl	EPO; JPO;	1	
		'chloride bromine br bromide lodine lodide	DERWENT;	1	
	1	astatine astatide at) and (sodium na) same	IBM TDB		1
1	1	'(halide halogen fluorine fluoride chlorine	1		
1	1	'cl chloride bromine br bromide iodine	ı	1	
1	1	iodide astatine astatide at) and		1	,
		(beryllium be magnesium mg calcium ca		1	
		strontium sr barium ba radium ra) same	l .		
	1		1	1	
	1	(halide halogen fluorine fluoride chlorine	i	:	
	1	cl chloride bromine br bromide iodine		1	
	1	, iodide astatine astatide at) ) and (rare		1	
	1	, adj earth lanthanoid) same molar adj ratio		1	
	1	, and (rare adj earth lanthanoid) same	I .		
:	1	(halide halogen fluorine fluoride chlorine	l .		1
5	1	, cl chloride bromine br bromide iodine			
		iodide astatine astatide at) and color adj			
		rendering adj index		1	
-			USPAT;	2003/06/18	15:34
			US-PGPUB;		10.0
			EPO; JPO;	1	
			DERWENT;	i company	i.
		astatine astatide at) and (sodium na) same			į.
'	i		IBM_TOB		
	1	· (halide halogen fluorine fluoride chlorine			
	1	cl chloride bromine br bromide iodine			
1	i	iodide astatine astatide at) and		1	
	1	(bcryllium be magnesium mg calcium ca		1	
	1	strontium sr barium ba radium ra) same		T.	- 1
		(halide halogen fluorine fluoride chlorine			- 1
1		cl chloride bromine br bromide iodine		1	1
1		iodide astatine astatide at) ) and (rare			ī
		adj earth lanthanoid) same molar adj ratio		1	
		and (rare adj earth lanthanoid) same			1
		(halide halogen fluorine fluoride chlorine			1
		cl chloride bromine br bromide iodine			
		iodide astatine astatide at) and (color			
	'			*	,
		adj rendering adj index "R.sub.a")			

		ATT ALE OF A SECURITION OF A S	7 .can.u.(=) - =	[72003/06/18 15:53
1 -				1 5003/00/18 (2:23)
i		mercury and (thallium Tl) same (halide	US-PGPUB;	1
1		halogen fluorine fluoride chlorine cl	EPO; JPO;	
i		chloride bromine br bromide iodine iodide	DERWENT;	,
i	1	astatine astatide at) and (sodium na) same		1
i	T	(halide halogen fluorine fluoride chlorine	1	1
	1	cl chloride bromine br bromide iodine		1
1		iodide astatine astatide at) and		
1	!	(beryllium be magnesium mg calcium ca	1	1
1	1	strontium sr barium ba radium ra) same	1	1
1	1	(halide halogen fluorine fluoride chlorine	T.	1
1	7	, cl chloride bromine br bromide iodine		
i		iodide astatine astatide at) ) and (rare		th i
1	ž.	adi earth lanthanoid) same molar adi ratio		1
	1	and (rare adj earth lanthanoid) same		,
		. (halide halogen fluorine fluoride chlorine		Y
I				· '
t		cl chloride bromine br bromide iodine	ž.	. 1
l .	1	iodide astatine astatide at) and (color	i .	1
t.	1	adj rendering adj index "R.sub.a")		* ·- · · · · · · · · · ·
-		26 ( (alumina ceramic) and lamp.ti,ab. and	USPAT;	2003/06/18 16:55
'		mercury and (thallium Tl) same (halide	. US-PGPUB;	1
1		halogen fluorine fluoride chlorine cl	, EPO; JPO;	1
l .		, chloride bromine br bromide iodine iodide	DERWENT;	1
l .	1	astatine astatide at) and (sodium na) same	IBM TDB	
	1	(halide halogen fluorine fluoride chlorine		10
		cl chloride bromine by bromide jodine		1
1	1	iodide astatine astatide at) and	1	1
1	1	(beryllium be magnesium mg calcium ca	1	1
1	1	strontium sr barium ba radium ra) same	1	_
	1	(halide halogen fluorine fluoride chlorine	1	
		. cl chloride bromine br bromide iodine		' i
1		iodide astatine astatide at) ) and (rare	1	
1	1	adj earth lanthanoid) same (halide halogen	1	i
	1	fluorine fluoride chlorine cl chloride	T .	1
	i,	bromine by bromide lodine lodide astatine	à .	1
	1	astatide at) and (color adj rendering adj		
1		index "R.sub.a")	1	1
-	'	3 (( (alumina ceramic) and lamp.ti,ab. and	USPAT;	'2003/06/18 16:09
		mercury and (thallium Tl) same (halide	US-PGPUB;	10
	1	halogen fluorine fluoride chlorine cl	EPO; JPO;	1
1	1	chloride bromine br bromide iodine iodide	DERWENT;	
	1	astatine astatide at) and (sodium na) same	IBM TDB	1
	1	(halide halogen fluoring fluoride chloring		1
		'cl chloride bromine br bromide iodine	1	· 1
	1	'iodide astatine astatide atl and	I .	4
		(beryllium be magnesium mg calcium ca		1
		strontium sr barium ba radium ra) same		1
	4	(halide halogen fluoring fluoride chloring	'	- 4
1	1	cl chloride bromine br bromide iodine	!	1
	1		1	I .
	1	, iodide astatine astatide at) ) and (rare	· ·	
	1	adj earth lanthanoid) same (halide halogen		
1	i i	, fluorine fluoride chlorine cl chloride		7 1
ı	1	, bromine br bromide iodine iodide astatino		· ·
	1	, astatide at) and (color adj rendering adj	1	
	4.01	index "R.sub.a")) and percent		Y .

		i i 7	(( (alumina ceramic) and lampiti, ab. and	ŪŠPĀŤ;	2003/06/18	16:10
	- 1		mercury and (thallium T1) same (halide	US-PGPUB;		
1	- 1		halogen fluorine fluoride chlorine cl	EPO; JPO;		
1	- 1		Tchloride bromine br bromide lodine lodide	DERWENT;	i	
1	1		astatine astatide at) and (sodium na) same	IBM_TDB	1	i i
	1		(halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine		i	
	- 1		iodide astatine astatide at) and			'
	- 1		(beryllium be magnesium mg calcium ca		1	1
i	1		strontium sr barium ba radium ra) same		1	,
1	- 1		(halide halogen fluorine fluoride chlorine		I	1
i	J.		cl chloride bromine br bromide rodine			1
:			'iodide astatine astatide at) ) and (rare			i
1	1		adj earth lanthanoid) same (halide halogen		1	
	1		fluorine fluoride chlorine cl chloride		1	
t .			- bromine br bromide iodine iodide astatine		1	
			, astatide at) and (color ad) rendering ad)			
1	4		index "R.sub.a")) and (percent percentage			j
			11811)			ī
-	1	3		USPAT;	2003/06/19	10:11
l .	1.		mercury and (thallium T1) same (halide	US-PGPUB:	A	
1	1		halogen fluorine fluoride chlorine cl	EPO; JPO;	1	
				DERWENT;		1
			(astatine astatide at) and (sodium na) same	IBM TDB	1	
1			(halide halogen fluorine fluoride chlorine		1	
			cl chloride bromine br bromide iodine			,
í.			iodide astatine astatide at) and		1	
			(beryllium be magnesium mg calcium ca		1	1
			strontium sr barium ba radium ra) same	1		1
			, (halide halogen fluorine fluoride chlorine	i	1	
	,		cl chloride bromine br bromide iodine			
	,		, iodide astatine astatide at) ) and (rare		1	
			adj earth lanthanoid) same (halide halogen		ř.	1
			fluorine fluoride chlorine cl chloride		1	
	1		bromine br bromide iodine iodide astatine		V)	T.
	,		astatide at) and (color adj rendering adj		1	1
			index "R.sub.a")) and (percent percentage			1
	1		"%") same (rare adj earth)		1	1
-	1	2	(((alumina ceramic) and lamp.ti.ab. and	USPAT;	2003/06/18	16:11
			mercury and (thallium Tl) same (halide	US-PGPUB;		
	2		halogen fluorine fluoride chlorine cl	EPO; JPO;		
	1			DERWENT;		į.
	1.		astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine	IBM_TDB		
			cl chloride bromine br bromide iodine			'
			iodide astatine astatide at) and		1	
			(beryllium be magnesium mg calcium ca		4	
			strontium or magnesium mg carcium ca strontium sr barium ba radium ra) same		1	1
			(halide halogen fluorine fluoride chlorine		1	1
	1		cl chloride bromine br bromide iodine		1	
	- 1		'iodide astatine astatide at) ) and (rare		*	
			adj carth lanthanoid) same (halide halogen		1	i
			'fluorine fluoride chlorine cl chloride			1
			bromine br bromide iodine iodide astatine		1	
	i		'astatide at) and (color ad) rendering ad)			:
	i		index "R.sub.a")) and (percent percentage		1	- 1
	1		"%") same (rare adj earth) with (halido)			- 1
		-	a significant and seasons (manage)			

, = -		7 7	(( (alumina ceramic) and lamp.ti,ab. and	USPAT;	1 2003/06/18 16:19
1			mercury and (thallium T1) same (halide	US-PGPUB;	1
	1		halogen fluorine fluoride chlorine cl	EPO; JPO;	1
	1		chloride bromine br bromide iodine iodide	DERWENT;	1
,	t.		astatine astatide at) and (sodium na) same	IBM_TDB	
1	1		(halide halogen fluorine fluoride chlorine	_	
1	1		cl chloride bromine br bromide iodine		1 !
1			iodide astatine astatide at) and		1
		-	(beryllium be magnesium mg calcium ca	T.	
	1		strontium sr barium ba radium ra) same		1
	1		(halide halogen fluorine fluoride chlorine		
1	1		cl chloride bromine br bromide iodine	1	1
T	Ē		iodide astatine astatide at) ) and (rare		
1		- 1	adj earth lanthanoid) same (halide halogen	1	1 1
4			fluorine fluoride chlorine cl chloride		1
1		-	bromine br bromide iodine iodide astatine	1	I g
			astatide at) and (color ad) rendering adj		
	1		index "R.sub.a")) and philips	1100000	
1 -	4.	0 1	Philips and mastercolor and "dyl.sub.2"	USPAT;	2003/06/18 16:19
1.				US-PGPUB;	1
			ı	EPO; JPO;	T :
1	i		ı	DERWENT;	1
1 _	1.	0.5	Philips and "mastercolor.rtm" and	IBM_TDB USPAT;	12003/06/18 16:20
1	1		"dyl.sub.2"	US-PGPUB;	: 2003/00/10 10:201
1	1		uy2.500.6	EPO; JPO;	1
				DERWENT;	1
				IBM TDB	
1_	1	2.1	Philips and "mastercolor.rtm" and	USPAT;	2003/06/18 16:20
1			"Dyl.sub.3"	· US-PGPUB;	, 2003/00/10 10.20
1	1		5/1.505.5	EPO; JPO;	1 1
	4	3		DERWENT;	
		1		IBM_TDB	1
' -		2 '	Philips and "mastercolor" and "Dyl.sub.3"	USPAT;	2003/06/18 16:21
1			The same of the sa	. US-PGPUB;	1
1	1			EPO; JPO;	1
1	1	- 9		DERWENT;	The state of the s
				IBM TDB	
		16	Philips and ("DyI.sub.3" "Hol.sub.3"	· USPAT;	2003/06/18 16:49
	1		and "TmI.sub.3")	US-PGPUB;	
		i		EPO; JPO;	1
		- 1		DERWENT;	
	1	- :		TBM TDB	1
		7	Philips and ("DyI.sub.3" and "Hol.sub.3"	USPAT;	2003/06/18 16:22
	1		and "TmI.sub.3")	US-PGPUB;	
	1			EPO; JPO;	
ī	1			DERWENT;	A
	1			IBM_TDB	T
, -		7		USPAT;	2003/06/18 16:24
1	1		same "TmT.sub.3")	US-PGPUB;	
	1	- '		EPO; JPO;	t .
				DERWENT;	
		١ .	White and 180 To the Office of the Control of the C	IBM TDB	0000100110 10 :
	1		Philips and ("DyT.sub.3" same "Hol.sub.3"	USPAT;	2003/06/18 16:27
1		1	same "TmI.sub.3") and (mercury hg)	US-PGPUB;	
		1		'EPO; JPO;	
		1		DERWENT;	1
	1	0 1	williams-decembel we and Man al-	IBM_TDB	2002/06/10 16 22
, -	1	٠,	williams-joseph-l.xa. and "%".clm.	USPAT;	2003/06/18 16:28
1	1			US-PGPUB;	T. Committee of the Com
1		1		EPO; JPO;	1
1	1			DERWENT; IBM TDB	de la constantina della consta
1 _	1	23 1	williams-joseph.xa. and "%".clm.	USPAT;	2003/06/18 16:28
4	4		"" I I I I I I I I I I I I I I I I I I	US-PGPUB:	. 2003/00/10 10:20
1	1			EPO; JPO;	
1	1			DERWENT;	
1				IBM TDB	
				1	s- s- s 1

. — -	- (-)				
-	,	2	Philips and ("Dyl.sub.3" "Hol.sub.3"	USPAT;	"2003/06/I9 09:59"
1	,		and "TmI.sub.3") and mastercolor and color	US-PGPUB;	
			adj rendering adj index	EPO; JPO;	
Ţ	1			DERWENT;	1 .
1	7			IBM_TDB	
1 -	1	18		USPAT;	2003/06/18 17:00
1	1		mercury and (thallium Tl) same (halide	US-PGPUB;	
1			halogen fluorine fluoride chlorinc cl	EPO; JPO;	
1	1		chloride bromine br bromide iodine iodide	DERWENT;	'
i	1		lastatine astatide at) and (sodium na) same	IBM TDB	T.
1			i (halide halogen fluorine tluoride chlorine	1	
			, cl chloride bromine br bromide iodine	i .	
A.	'		iodide astatine astatide at) and	"	!
1	1		'(boryllium be magnesium mg calcium ca	1	
1	1		strontium sr basium ba radium ra) same	1	
T	1		(halide halogen fluorine fluoride chlorine	1	T.
1	1		cl chloride broming by bromide iodine		1
,	t .		iodide astatine astatide at)   and (rare	I .	1
	1		adj earth lanthanoid) same (halide halogen		J.
	T		fluorine fluoride chlorine cl chloride		1
	1		bromine br bromide iodine iodide astatine		1 1
1	1		astatide at) and (color ad) rendering adj		1
1	1		, index "R.sub.a") and (cesium cs) same	1	
1	1		(halide halogen fluorine fluoride chlorine	I	1 1
	1		cl chloride bromine br bromide iodine		1
1			iodide astatine astatide at)		T I
		1.1	( (alumina ceramic) and lamp.ti,ab. and	USPAT:	2003/06/18 17:01
		1.	mercury and (thallium T1) same (halide	US-PGPUB;	2003/00/10 17:01
			halogen fluorine fluoride chlorine cl	EPO; JPO;	
	1			DERWENT;	
1	1		'astatine astatide at) and (sodium na) same		1
1			(halide halogen fluorine fluoride chlorine	, IDM_IDD	1
1	l		cl chloride bromine br bromide jodine	1	
4.	1		iodide astatine astatide at) and		
1	1		(beryllium be magnesium mg calcium ca		ė .
1			, strontium or barium ba radium ra) same		
			(halide halogen fluoring fluoride chlorine	•	1
i i	1		cl chloride bromine br bromide iodine	1	1
ï	1		iodide astatine astatide at) ) and (rare		1
	1		ad) carth lanthanoid) same (halide halogen		1 2
	1		fluorine fluoride chlorine cl chloride	i .	
	1			I .	
	1		bromine br bromide iodine iodide astatine		'
			,astatide at) and (color adj rendering adj ,index "R.sub.a") and cesium same (halide	÷.	1
	1		halogen fluorine fluoride chlorine cl		
	1				
	!		chloride bromine br bromide iodine iodide	•	
			astatine astatide at)		
1.7	1			: USPAT;	2003/06/18 17:11
	1			US-PGPUB;	7 1
	- 25			EPO; JPO;	
1	1			. DERWENT;	· 1
1			astatine astatide at) and (sodium na) same	TRW_LDB	
	'		(halide halogen fluorine fluoride chlorine	1	
			cl chloride bromine br bromide iodine iodide astatine astatide at) and		
4				I .	, '
	'		(beryllium be magnesium mg calcium ca	1	,
	1		strontium sr barium ba radium ra) same	1	
1	T		(halide halogen fluorine fluoride chlorine		· i
1			cl chloride bromine br bromide iodine	į .	
1	1		iodide astatine astatide at) ) and (rare		'
1	1		adj earth lanthanoid) with (halide halogen		'
			fluorine fluoride chlorine cl chloride	i	' 1
£	1		bromine br bromide iodine iodide astatine		1
1			astatide at) and (color adj rendering adj		
1	- 1		index "R.sub.a") and cesium with (halide		
1	- 1		halogen fluorine fluoride chlorine cl		
į.		1	chloride bromine br bromide iodine iodide		•
1		_ !	astatine astatide at)		i

 <u>I</u>	20	popov-oleg.in.	USPAT; US-PGPUB;	72003/06718 1	7:11
1		i L	EPO; JPO;   DERWENT;	i	1
		i e	IBM TOB	4	
	0	philips and mastercolor same cesium	USPAT;	2003/06/19 0	9.59
· ·		prizzpo and mascerostor same essemi	US-PGPUB;	. 2000/00/33 0	1
I.			EPO; JPO;	1	1
			- DERWENT;	i	
			TBM TDB	4	
1	0	5212424.pm. and (cri color adj rendering	USPAT;	. 2003/06/19 1	0:08
1		, adj index)	'US-PGPUB;	1	
1			EPO; JPO;	1	1
1			DERWENT;		
1			IBM TDB		
8	4	(( (alumina ceramic) and lamp.ti,ab. and	USPAT;	2003/06/19 1	0:16
		mercury and (thallium T1) with (halide	'US-PGPUB;	1 1	- 1
,		, halogen fluorine fluoride chlorine cl	· EPO; JPO;	T	
1		chloride bromine br bromide jodine jodide	DERWENT;	1	
1		'astatine astatide at) and (sodium na) with	IBM TDB		- 1
1		(halide halogen fluorine fluoride chlorine		1	
4		cl chloride bromine br bromide iodine	1	T .	
1		, iodide astatine astatide at) and	1		
1		(beryllium be magnesium mg calcium ca	1	'	- 1
1		strontium sr barium ba radium ra) with	4	Ť	1
		! (halide halogen fluorine fluoride chlorine !cl chloride bromine br bromide iodine			- 1
		iodide astatine astatide at)   and (rare			
		adj earth lanthanoid) with (halide halogen	T		- 1
1		fluorine fluoride chlorine cl chloride	T.	'	,
- 1		bromine br bromide iodine iodide astatine		1	1
		astatide at)) and (mol molar) adi3			1
1.		(fraction percent percentage "%") same	1	1	
1		(rare adj carth lanthanoid)	1	'	
	63555	"14"	USPAT;	2003/06/19 1	0:18 '
			, US-PGPUB;	1	- 1
			EPO; JPO;		1
- 1			DERWENT;	1	i
			IBM TDB	4	1
	4	(( (alumina ceramic) and lamp.ti,ab. and	USPAT;	2003/06/19 1	2:13
		mercury and (thallium T1) with (halide	· US-PGPUB;		
1		halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide	EPO; JPO;	1	
į.		astatine astatide at) and (sodium na) with	IBM TOB	1	1
1		(halide halogen fluorine fluoride chlorine	TUM_IND	1	
		cl chloride bromine br bromide iodine		1	
		iodide astatine astatide at) and		1	
		(beryllium be magnesium mg calcium ca	4	1	1
		strontium sr barium ba radium ra) with		1	1
- 1		(halide halogen fluorine fluoride chlorine		The second second	1
		cl chloride bromine br bromide iodine		1	1
- 1		iodide astatine astatide at) ) and (rare	5.		- 1
		adj earth lanthanoid) with (halide halogen	1	1	
1		fluorine fluoride chlorine cl chloride	i .	4	
- 1		, bromine br bromide iodine iodide astatine		1	- 1
		astatide at)) and (mol molar) adj3		1	1
1		(fraction percent percentage "%") same		1	
 1 .		(rare adj earth lanthanoid)			

= =	7	1 (( (sapphire polycrystalline adj "Al.2"	USPAT;	2003/06/19	12:1 <del>8</del> i
	1	O.sub.3") and lamp.ti,ab. and mercury and	US-PGPUB;		
	1	(thallium Tl) with (halide halogen	EPO; JPO;	1	į
i		fluorine fluoride chlorine cl chloride	DERWENT;		
	,	bromine br bromide iodine iodide astatine	IBM_TDB		
	1	astatide at) and (sodium na) with (halide	T.	1	1
	i	halogen fluorine fluoride chlorine cl	3	1	- 0
,	1	chloride bromine br bromide iodine iodide	1		1
		astatine astatide at) and (beryllium be		1	
	1	magnesium mg calcium ca strontium sr		1	
	1	barium ba radium ra) with (halide halogen	1		Ī
•		fluorine fluoride chlorine cl chloride		1	
1		bromino br bromide iodine iodide astatine			1
	i	astatide at) ) and (rare adj carth		i	
3	1	, lanthanoid) with (halide halogen fluorine		1	T
	4	fluoride chlorine cl chloride bromine br			1
	,	bromide iodine iodide astatine astatide	1		1
	1	'at)) and (mol molar) adj3 (fraction	T .	1	
	- 1	percent percentage "%") same (rare adj	t .	1	1
	1	, earth [anthanoid]			
-		1 (( (sapphire polycrystalline adj "Al.2	USPAT;	1 2003/06/19	12:22
		O.sub.3") and lamp.ti.ab. and mercury and	US-PGPUB;	1	
		(thallium Tl) with (halide halogen	EPO; JPO;	1	i
	1	fluorine fluoride chlorine cl chloride	DERWENT;		
		bromine br bromide iodine iodide astatine	IBM_TDB		
	1	astatide at) and (sodium na) with (halide			1
	1	halogen fluorine fluoride chlorine cl	1	1	
		, chloride bromine br bromide iodine iodide	1		
	,	astatine astatide at) and (beryllium be	1		1
	1	magnesium mg calcium ca strontium sr			1
L.		barium ba radium ra) with (halide halogen		1	
1		fluorine fluoride chlorine cl chloride	I .	4	i
	1		1		1
1.	1	astatide at) ) and (scandium			
r .		yttrium, lanthanum cerium prascodymium	1	1	
	'	neodymium, promethium samarium europium	1	T	1
1		gadolinium terbium dysprosium holmium			
1		erbium thulium ytterbium lutetium) with (halide halogen fluorine fluoride chlorine		1	
		cl chloride bromine br bromide iodine	r	T.	1
		iodide astatine astatide at)) and (mol			-1
!					
1	1	molar) adj3 (fraction percent percentage	1		1
		"%") same (scandium yttrium, lanthanum	1	1	1
	1	cerium prascodymium neodymium, promethium samarium europium gadolinium terbium	T	1	1
	1	dysprosium holmium erbium thulium		1	
l .	1	dysprosium hoimium crbium thullum vtterbium lutetium rare adi earth	1		1
1		lanthanoid)	1	t.	

O.sub.3") and lamp.ti,ab and mercury and (thallium TI) with (halide halogen fluorine fluoride chlorine cl chloride bromine be bromide iodine iodide astatine astatide at) and (socium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine be bromide iodine iodide astatine astatide at) and (socium na) with seminary berlium be magnesium me calcium ca strontium with the lide halogen bromine be bromide iodine iodide astatine astatide at) and (scandium yttriumlanthanum cerium prasoodymium neodymium promethium samarium europium gadolinium terbium dyprosium holmium erbium thulium ytterbium lutctium) with (halide halogen fluorine fluoride chlorine cl chloride bromine be bromide iodide astatine astatide at)) and (scandium promethium samarium europium gadolinium terbium thulium dysprosium holmium promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium dysprosium del amp.ti, ab, and mercury and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (socium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (socium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (socium ab dysprosium dy holmium ho erbium er thulium the dysprosium dy holmium ho erbium er thulium the dysprosium dy holmium ho erbium er noopium eu gadoli						
(thallium Ti) with (halide halogen fluorine fluoride chlorine cl chloride bromine bromadie oidine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide ati and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine lodide astatine astatide ati and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride astatide ati) and (scandium yttriumlanthanum cerium prasodymium neodymium promethium smarrium europium gadolinium terbium dysprosium holmium erbium thulium ytterbium lutotium) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide ati) and (mol molar) adi3 (fraction percent percentage "%") same (scandium yttriumlanthanum cerium prasedymium medymium promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium ytterbium lutotium rare adi carth lanthanoid) (((sapphire polycrystalline adi) "Al.2 ((susphire polycrystalline adi) "Al.2 ((susphire polycrystalline adi) "Al.2 (o.sub.3") and lamp.ti,ab. and mercury and promine br bromide iodine iodide astatine astatide atl and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide atl and (bryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide atl) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm curropium eu gadolinium gd terbium th dysprosium dhy holmium ho erbium er thulium thy vtcorbium gr hondymium nd promethium pm samarium sm europium eu gadolinium gd terbium th dysprosium dy holmium ho erbium er thulium thy ytterbium ;		- , -	1 (( (sapphire polycrystalline adi "Al.2	USPAT;	1 2003/06/19 12	:30 ,
fluorine fluoride chlorine cl chloride bromine bromadie iodine lodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine lodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromade lodine astatine astatide at) ) and (scandium yttrimium promethem was marium europium gadolinium terbium dysprosium holmium erbium thum ytterbium lutetium) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)) and (mol molar) adj3 (fraction percent percentage "%") same (scandium yttriumlanthanum cerium praseodymium medymium promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium ytterbium lutetium rare adj carth lanthanoid) (((sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thalilum vil) with (halide halogen fluorine fluoride chlorine cl choride bromine br bromide iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (scandium sc yttrium y lanthanum ta cerium ce praseodymium pr neodymium of promethium pm samarium sm curopium eu gadolinium gd torbium er thulium tm ytterbium bu devium ce praseodymium pr neodymium of promethium pm samarium sm curopium eu gadolinium pr neodymium pr neodymium no promethium pr neodymium nod promethium pm samarium sm europium eu gadolinium se brium ru thulium thu ytterbium i	1			. US-PGPUB;	1	- 1
bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorino fluoride chlorine cl chloride bromine br bromide lodine iodide astatine astatide at) and (beryllium be magnesium mg calcium co astrontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (scandium yttriumlanthanum cerium prascodymium necodymium promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium ytterbium fluoride chlorine cl chloride bromine br bromide iodine iodine cl chloride bromine br bromide iodine	A c	· ·	(thallium T1) with (halide halogen	EPO; JPO;		- 1
astatice at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium bar addium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (scandium yitriumlanthanum cerium prassoodymium yitriumlanthanum cerium prassoodymium incodymium promethitum samarium europium gadolinium terbium dysprosium bombium gadolinium terbium dysprosium bombium cl inchesia de chloride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (mol molar) adja (fraction percent percentage "%") same (scandium yitriumlanthanum cerium prassodymium promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium yiterbium lutctium rare adj carth lanthanoid)  (((sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluorine cl chloride chlorine cl chloride chlorine cl chloride chlorine cl chloride statine astatide at) and (bryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluorine cl chloride cl chloride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (bryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluorine chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (scandium sc yttrium y lanthanum La cerium ce prassodymium pr neodymium se promethium promethium promethium promethium promethium promethium promethium europium eu qadolinium se vetruim y lanthanum La cerium ce prassodymium pr neodymium nd promethium promethium promethium europium eu qadolinium se bebium er thulium thy tterbium in promethium promethium europium eu qadolinium se bebium er thulium thy tterbium in promethium promethium promethium	i .	.1.	fluorine fluoride chlorine cl chloride	DERWENT;	Į.	
astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine lodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide lodide astatine astatide at) and (scandium presocodymium yitriumlanthanum cerium presocodymium gadolinium terbium dysprosium holmium erbium thum yitriumlanthanum (erium presocodymium yitriumlanthanum (erium presocodymium yitriumlanthanum (erium yitrium lutctium) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide lodine iodide astatine astatide at)) and (mol molar) adj3 (fraction percent percentage "%") same (scandium yttriumlanthanum cerium prasocdymium promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium ytterbium lutctium rare adj carth lanthanoid)  (((sapphire polycrystalline adj "Al.2 () o.sub.3") and lamp.ti,ab. and mercury and ((thalilum ril) with (halide halogen fluoride chloride astatine astatide at) and (beyllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (scandium sc yttrium y lanthanum La cerium ce praseodymium pr neodymium pr neodymium pr neodymium pr neodymium pr neodymium promethium pm samarium sm curopium eu gadolinium se vertrium y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium me uropium eu gadolinium se brotum er thulium the ytterbium in promethium pm samarium sm europium eu gadolinium se brotum er thulium the ytterbium in promethium pm samarium sm europium eu gadolinium se brotum er thulium the ytterbium in promethium ph samarium sm europium eu gadolinium se br		1		IBM TDB	I.	i
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	1	3 (( (sapphire polycrystalline adj "Al.2	USPAT;	1 2003/06/19 ]	[2:46]
1	1	O.sub.3") and lamp.ti,ab. and mercury and	US-PGPUB;	1	
1			EPO; JPO;		
i		fluorine fluoride chlorine cl chloride	DERWENT;	1	1
1	1	bromine br bromide iodine iodide astatine	IBM_TDB	1	
1	4	astatide at) and (sodium na) with (halide	_	I.	,
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ī	!	!magnesium mg calcium ca strontium sr	i.	T.	
	1	barium ba radium ra) with (halide halogen			
1		'fluorine fluoride chlorine cl chlorido	1	1	
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1	1	astatide at) ) and (scandium sc yttrium Y	1	ė.	
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		neodymium nd promethium pm samarium sm		1	1
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1	T	tm ytterbium yb lutetium lu) with (halide	1	1	
1	1	halogen fluorine fluoride chlorine cl	1	1	
1	1	chloride bromine br bromide iodine iodide	1	1	
		astatine astatide at)) and (cosium cs)			1
1		with (halide halogen fluorine fluoride	1	1	
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1		'iodine iodide astatine astatide at) and		1	
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	1	"R.sub.a") with ("80" "85" "90" "95"	1	7	1
1	1	"100")			7
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1		polycrystalline adj "Al.2 O.sub.3") and	US-PGPUB;	1	1
		lamp.ti,ab. and mercury and (thallium T1)	'EPO; JPO;		1
		with (halide halogen fluorine fluoride	DERWENT;	"	1
i .		chlorine cl chloride bromine br bromido	IBM_TDB		,
T.		iodine iodide astatine astatide at) and		1	i i
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	1	, fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide	t	1	
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		iodine iodide astatine astatide at) ) and	T		- 1
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	1	er thulium tm vtterbium vb lutetium lu)		1	- 1
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1,-	,	15 (( (ceramic alumina sapphire	USPAT;	72003/06/19	13:05
1		polycrystalline adj "Al.2 O.sub.3") and	US-PGPUB;	1	
	1	lamp.ti,ab. and mercury and (thallium T1)	EPO; JPO;		- 1
		with (halide halogen fluorine fluoride	DERWENT;	1	
1		chlorine cl chloride bromine br bromide	IBM_TDB	1	
i	1	iodine iodide astatine astatide at) and			1
		(sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br	'	I .	
T	,	bromide iodine jodide astatine astatide		1	
1	1	at) and (beryllium be magnosium mg	1	1	1
	1	calcium ca strontium sr barium ba radium		1	
		ra) with (halide halogen fluorine fluoride	'		i
1	,	chlorine cl chloride brominc br bromide		*	1
1	ī	iodine iodide astatine astatide at) ) and	1	1	
	1	(scandium sc yttrium Y lanthanum La cerium	ž.	7	1
		, ce prascodymium pr neodymium nd promethium	1		1
1		pm samarium sm europium eu gadolinium gd	t	1	- 4
	1	terbium to dysprosium dy holmium ho erbium			÷
		er thulium tm ytterbium yb lutctium lu)			
		with (halide halogen fluorine fluoride	1	r	ì
		chlorine cl chloride bromine br bromide	1		1
1		iodine iodide astatine astatide at)) and	1		4
	,	(cesium cs) with (halido halogen fluorine	1	1	
	- 1	fluoride chlorine cl chloride bromine br		1	
1	1	bromide iodine iodide astatine astatide	1		1
1		at) and (color ad) rendering adj index CRI	Ţ.	Į.	1
1		"R.sub.a") with ("80" "85" "90" "95"	Y.	1	
	1	"100") 5 (/ /ceramic alumina samphire	HOURS.	. 2003/06/19	12.12
1 -			USPAT; US-PGPUB;	2003/06/19	13:12
T.		(polycrystalline adj "Al.2 O.sub.3") and	: EPO; JPO;		1
		; lamp.ti,ab. and mercury and (thallium T1) with (halide halogen fluorine fluoride	DERWENT;		
1	1	chlorine cl chloride bromine br bromide	IBM TDB		i i
1	1	iodine iodide astatine astatide at) and	I DIN_I DD	1	
T.		(sodium na) with (halide halogen fluorine		i	i.
		fluoride chlorine cl chloride bromine br			
		bromide iodine iodide astatine astatido	1		1
ī	1	at) and (beryllium be magnesium mg	1	Į.	1
1	1	calcium ca strontium sr barium ba radium		i	
111		ra) with (halide halogen fluorine fluoride	1	1	į.
		chlorine c  chloride bromine br bromide	1		
1	1	iodine iodide astatine astatide at) ) and	1		
1		(scandium sc yttrium Y lanthanum La cerium	1		
T.	1	ce praseodymium pr neodymium nd promethium		Í	i
	1	pm samarium sm curopium cu gadolinium gd	1	1	1
		terbium to dysprosium dy holmium ho erbium	0		
		er thulium tm ytterbium yb lutetium lu)	1		
1	1	, with (halide halogen fluorine fluoride	T .	1	- 1
1		chlorine cl chloride bromine br bromide			1
1	T	iodine iodide astatine astatide at)) and (mol molar) adi3 (fraction percent	1	:	1
Ī	4	percentage "%") same (scandium se vitrium	1		
1		Y lanthanum La cerium ce praseodymium pr	1		
A.		neodymium nd promethium pm samarium sm		1	
1		europium eu gadolinium gd terbium th		1	1
1		dysprosium dy holmium ho erbium er thulium	1		
1	1	tm ytterbium yb lutetium lu rarc adj earth	L		
i		lanthanoid)	i		
				1	/

-0.0					
-		15 ((( (ceramic alumina sapphire	USPAT;	2003/06/19	13:30
		polycrystalline adj "Al.2 O.sub.3") and   lamp.ti,ab. and mercury and (thallium T1)	US-PGPUB;	T.	4.
		with (halide halogen fluorine fluoride	EPO; JPO; DERWENT;		
	1.	chlorine cl chloride bromine br bromide	IBM TDB	1	i
	1	'iodine iodide astatine astatide at) and	TBN_TDD	1	1
	1	(sodium na) with (halide halogen fluorine	1		
		fluoride chlorine cl chloride bromine br		1	
		bromide iodine iodide astatine astatide		i	1
	1	at) and (beryllium be magnesium mg		1	
	1	calcium ca strontium sr barium ba radium	ı	1	i
		ra) with (halide halogen fluorine fluoride		1	1
		chlorine cl chioride bromine br bromide	:	i.	
		'iodine iodide astatine astatide at) ) and	1	İ	1
		(scandium sc yttrium Y lanthanum La cerium		1	1
	1	ce praseodymium pr neodymium nd promethium			,
	1	pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium	1		1
		er thulium tm vtterbium vb lutetium lu)	1	I	
		. with (halide halogen fluorine fluoride		1	1
		chlorine cl chloride bromine br bromide	!		1
	1	iodine iodide astatine astatide at)) and	1	1	
	1	(cesium cs) with (halide halogen fluoring			1.
		fluoride chlorine cl chloride bromine br	1	i i	1
		bromide iodine iodide astatine astatide	1	1	
		at) and (color adj rendering adj index CRI	ì	Y .	
	Ī	"R.sub.a") with ("80" "85" "90" "95"			1
		"100")) and (( (thallium Tl) with (halide	1	¥.	
	'	halogen fluorine fluoride chlorine cl		Ī	,
	1	chloride bromine br bromide iodine iodide			1
	1	astatine astatide at) and (sodium na) with	1	•	T
		(halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine	1	1	
	1	iodide astatine astatide at) and	7	T.	1
	1	(beryllium be magnesium mg calcium ca	1		1
	1	. strontium or barium ba radium ra) with	i	1	
		(halide halogen fluorine fluoride chlorine			
		cl chloride bromine br bromide iodine		1	1
		iodide astatino astatide at) ) and	1	1	19
		(scandium sc yttrium Y lanthanum La cerium	1	T	
	.1	ce praseodymium pr neodymium nd promethium	1	1	,
	1	pm samarium sm europium eu gadolinium gd	1		1
	1	terbium th dysprosium dy holmium ho erbium:		1	
		er thulium tm ytterbium yb lutetium lu)			
		with (halide halogen fluorine fluoride	1		
	1	chlorine cl chloride bromine br bromide	ī		1
	:	iodine iodide astatine astatide at)) and		'	- 1
		(cesium cs) with (halide halogen fluorine fluoride chlorine cl chloride bromine br	7	T.	1
	1	, fluoride Chiorine ci chioride bromine br , bromide iodine iodide astatine astatide		1	
	.L	at) and (color ad) rendering ad) index CRI			
	1	"R.sub.a") with ("80" "85" "90" "95"			i
	1	"100")			

	-	15 ((ceramic alumina sapphire polycrystalline 'USPAT;	2003706/19 14:00
4	1	adj "Al.2 O.sub.3") and lamp.ti,ab. and US-PGF	UB; i
1	1	mercury) and (thallium Tl) with (halide EPO; J	
	1	halogen fluorine fluoride chlorine cl   DERWEN	
1		chloride bromine br bromide iodine iodide   IBM_TD	В
1	1	astatine astatide at) and (sodium na) with	
1	1	(halide halogen fluorine fluoride chlorine !	1
		cl chloride bromine br bromide iodine	T I
		iodide astatine astatide at) and	1
1	1	(beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with	
1	1	(halido halogen fluorine fluoride chlorine	1
		cl chloride bromine br bromide iodine	, 1
4		iodide astatine astatide at) and	
1	1	(scandium sc vttrium Y lanthanum La cerium .	1
	1	ce praseodymium pr neodymium nd promethium	r e
1		pm samarium sm europium eu gadolinium gd	'
1		terbium to dysprosium dy holmium ho erbium	' '
		er thulium tm ytterbium yb lutetium lu)	1 1
		with (halide halogen fluorine fluoride	
	1	'chlorine cl chloride bromine br bromide	,
	1	iodine iodide astatine astatide at) and	
	1	(cesium cs) with (halide halogen fluorine	
	1	fluoride chlorine cl chloride bromine br	
	Ŷ	bromide jodine iodide astatine astatide	
		at) and (color adj rendering adj index CRI "R.sub.a") with ("80" "85" "90" "95"	
1		"100")	1
1 _	1	2062 (ceramic alumina sapphire polycrystalline (USPAT;	. 2003/06/19 13:20
	1	adi "Al.2 O.sub.3") and lamp.ti.ab. and .US-PGF	
		mercury EPO; J	
'	1	DERWEN	
1	1	IBM TO	
			Telech ese in a

1	1	2000 (US-3558963-\$ or US-3564328-\$ or		USPAT;	2003/06/19 13:23
1	i	US-4449948-\$ or US-4445073-\$ or	1	US-PGPUB;	4
T	1	US-4445067-\$ or US-4442379-\$ or US-4442378-\$ or US-4441049-\$ or		EPO; JPO; DERWENT	4
1	1	US-4437039-\$ or US-4435284-\$ or		DERWENT	1
1	1	US-4434385-\$ or US-4431945-\$ or			
1	-1	US-4427922-\$ or US-4422017-\$ or			1
	1	US-4422007-\$ or US-4420708-\$ or			1
	1	US-4419303-\$ or US-4418300-\$ or			
Å.	1	US-4414318-\$ or US-4409522-\$ or US-4409517-\$ or US-4405423-\$ or			, 1
	1	US-4403171-\$ or US-4401913-\$ or			1
1	1	US-4401912-\$ or US-4400754-\$).did. or			1
		(US-4396856-\$ or US-4396595-\$ or			4 ·
	1	US-4394580-\$ or US-4393100-\$ or			1.
1	1	.US-4390811-\$ or US-438855/-\$ or			i i
4	1	US-4387067-\$ or US-4386050-\$ or US-4382207-\$ or US-4382207-\$			t .
1	1	US-4380714-\$ or US-4379982-\$ or			
1	1	'US-4376259-\$ or US-4374339-\$ or			1
	1	US-4373146-\$ or US-4363998-\$ or			
1	1	US-4362969-\$ or US-4361782-\$ or			1
1	1	US-4358717-\$ or US-4349764-\$ or			1 '
1	1	US-4345178-\$ or US-4344018-\$ or			
1	1	US-4342939-\$ or US-4342938-\$ or US-4342937-\$ or US-4340930-\$ or	-		
5	1	US-4339686-\$).did. or (US-4338544-\$ or			
1	1	US-4335330-\$ or US-4333032-\$ or			1
1	1	US-4325004-\$ or US-4322654-\$ or			1
<u>i.</u>	1	US-4321503-\$ or US-4319157-\$ or			1
1	1	US-4316122-\$ or US-4308650-\$ or			
1	1	US-4307315-\$ or US-4303848-\$ or US-4298828-\$ or US-4291250-\$ or			1
	1	US-4290097-\$ or US-4289991-\$ or			1
1		US-4287454-\$ or US-4287452-\$ or	-		1
	1	US-4286190-\$ or US-4282462-\$ or			T
1	i	US-42812/1-\$ or US-4281267-\$ or			
	1	US-4278916-\$ or US-4277715-\$ or			
	T	US-4277438-\$ or US-4272703-\$ or US-4265950-\$ or US-4256988-\$).did. or			1
1	1	(US-4255642-\$ or US-4238173-\$ or			
1	1	.US-4233542-\$ or US-4233493-\$ or	1		1
1	1	US-4230964-\$ or US-4223986-\$ or	3		
	1	US-4223250-\$ or US-4216408-\$ or	- 1		1
1	1	US-4216178-\$ or US-4211758-\$ or US-4210840-\$ or US-4210839-\$ or	-		I i
	1	US-4208618-\$ or US-4208614-\$ or			t to
1	1	US-4206387-\$ or US-4205258-\$ or			1
	1	US-4204137-\$ or US-4203049-\$ or			
1	1	US-4198586-\$ or US-4197957-\$ or			t i
1		US-4197480-\$ or US-4196374-\$ or	-		1
4		US-4193879-\$ or US-4191910-\$ or US-4191945-\$ or US-4191907-\$ or US-4187445-\$ or			I y
t		US-4185221-\$).did. or (US-4184101-\$ or	- 1		I i
1		US-4182976-\$ or US-4182975-\$ or			1
1	1	US-RE30181-\$ or US-4180763-\$ or	-		
	1	US-4179777-\$ or US-4179640-\$ or			
		US-RE30165-\$ or US-4173730-\$ or	,		* · · · · · · · · · · · · · · · · · · ·
	1	US-4172981-\$ or US-4171500-\$ or			to a second of the second
1	i	US-4169875-\$ or US-4162430-\$ or US-4161672-\$ or US-4161672-\$			<u>.</u>
1	1	US-4160930-\$ or US-4158153-\$ or			1
	1	US-4156830-\$ or US-4156550-\$ or			1
1	1	US-4156265-\$ or US-4155025-\$ or			1
1	1	US-4152620-\$ or US-4152619-\$ or			1
1	1	US-4150321-\$ or US-4150317-\$ or US-4147961-\$ or US-4147961-\$ or US-4147951-\$).did. or			•
	4	(US-4147961-\$ or US-4147951-\$).did. or			1
1	1	US-4140938-\$ or US-4137484-\$ or	5		1
1		US-4137483-\$ or US-4135114-\$ or	,		1
i	ī	US-4135110-\$ or US-4128789-\$ or			
Search Hi	storv	US-4123685-s or US-4122042-s or	- 1		1
		orkspaths-W196238246. was US-4109175-\$ or			
1	1	US-4103200-\$ or US-4096088-\$ or	i		i i
	1	110 4002000 6 × 116 4002550 6 ×			1

 	11 (((( (ceramic alumina sapphire	USPAT:	2003/06/19 13:30
	polycrystalline adj "Al.2 O.sub.3") and	US-PGPUB;	,
	lamp.ti,ab, and mercury and (thallium T1)	EPO; JPO;	1
	with (halide halogen fluorine fluoride	DERWENT;	1
1	chlorine cl chloride bromine br bromide	IBM TDB	i
1	iodine iodide astatine astatide at) and		
7	(sodium na) with (halide halogen fluoring		1
	fluoride chlorine cl chloride bromine br	1	
1	bromide iodine iodide astatine astatide	1	
1	at) and (beryllium be magnesium mg	V.	
	calcium ca strontium sr barium ba radium	1	
	ra) with (halide halogen fluoring fluoride		
4	, chlorine cl chloride bromine br bromide		
1	iodine iodide astatine astatide at) ) and		
	(scandium sc yttrium Y lanthanum la cerium	1	
	co prascodymium pr neodymium nd promethium	1	. 1
	pm samarium sm europium cu gadolinium gd		
1	terbium to dysprosium dy holmium ho crbium		Ī
	er thulium tm ytterbium yb lutetium Ju)	1	
	with (halide halogen fluoring fluoride		
	chlorine cl chloride bromine br bromide	1	
	iodine iodide astatine astatide at)) and	1	
1	(cesium cs) with (halide halogen fluorine		
1	fluoride chlorine cl chloride bromine br	1	
1	'bromide iodine iodide astatine astatide		,
1	at) and (color adj rendering adj index CRI	7	,
	"R.sub.a") with ("80" "85" "90" "95"	1	
	"100")) and (( (thallium Tl) with (halide		
	halogen fluorine fluoride chlorine cl		
1	chloride bromine br bromide iodine iodide	T	
1	'astatine astatide at) and (sodium na) with	· P	
	(halide halogen fluoring fluoride chloring	T	
	cl chloride bromine br bromide jodine		
1	iodide astatine astatide at) and		
1	(beryllium be magnesium mg calcium ca	1	1
1	strontium sr barium ba radium ra) with		1
1	(halide halogen fluorine fluoride chlorine		
1	cl chloride bromine br bromide jodine	7	
	iodide astatine astatide at) ) and		1
1	(scandium sc yttrium Y lanthanum La cerium		
	ce prascodymium pr neodymium nd promethium	7	
1	pm samarium sm europium eu gadolinium gd	ī	
1	terbium to dysprosium dy holmium ho erbium	1	
1	er thulium tm ytterbium yb lutetium lu)		1 7
1	with (halide halogen fluoring fluoride		. 1
1	'chloring c/ chloride bromine br bromide		
0.00	'iodine iodide astatine astatide at)) and		
0	'(cesium cs) with (halide halogen fluorine	1	
1	fluoride chlorine cl chloride bromine br		
1	'bromide iodine iodide astatino astatide		, ,
1	'at) and (color adj rendering adj index CRT		· .
1	"R.sub.a") with ("80" "85" "90" "95"	1	
1	"100")) not mercury adj free		
 ****	THE STATE OF THE WAY AND THE	- ) -(-	the state of the second

7 -			3 ((coramic alumina sapphire polycrystalline	I DEDAT.	-20 <del>03</del> 706/19	14.05
	,		adj "Al.2 O.sub.3") and lamp.ti,ab. and	US-PGPUB;	, 2003/00/15	14.00
			mercury) and (thallium T1) with (halide	EPO; JPO;	1	
1	T		halogen fluorine fluoride chlorine cl	DERWENT;		
1			chloride bromine br bromide iodine iodide	' IBM TOB	1	
1			astatine astatide at) and (sodium na) with		1	
1			(halide halogen fluorine fluoride chlorine	'	1	
1			cl chloride bromine br bromide iodine	Ť.		-
1	1		iodide astatine astatide at) and	1	1	
	1		(beryllium be magnesium mg calcium ca		1	
	1		strontium or barium ba radium ra) with		1	
1			(halide halogen fluorine fluoride chlorine	1	1	,
1			cl chloride bromine br bromide iodine	ē.		
1				1		
i i	1		iodide astatine astatide at) and			
			(scandium sc yttrium Y lanthanum La cerium	1	1	
			ce praseodymium pr neodymium nd promethium	I.		
1	1		pm samarium sm europium eu gadolinium gd	1		
1	5		terbium to dysprosium dy holmium ho erbium	T.	i i	
	1		er thulium tm ytterbium yb lutctium lu)	r	1	
	1		with (halide halogen fluorine fluoride	L		
1	1		chlorine cl chloride bromine br bromide	1	1	
1			'iodine iodide astatine astatide at) and			
1	,		(cesium cs) with (halide halogen fluorine	'		
1	1		fluoride chlorine cl chloride bromine br	L	.1.	
	1		bromide iodine iodide astatine astatide	1		
,	1		at) and (color ad) rendering adj index CRI			
1			"R.sub.a") not (((( (ceramic alumina	1	1	
1			sapphire polycrystalline adj "Al.2	1		
	1		- O.sub.3") and lamp.ti,ab. and mercury and			
	I		(thallium Tl) with (halide halogen			
	1		fluorine fluoride chlorine cl chloride		1	
1			bromine br bromide iodine iodide astatine	1		
			(astatide at) and (sodium na) with (halide	1	i e	
	- 1		halogen fluorine fluoride chlorine cl			
1	1		chloride bromine br bromide iodine iodide	1	1	1
1	1		astatine astatide at) and (beryllium be	1	9	
			'magnesium mg calcium ca strontium sr			
			barium ba radium ra) with (halide halogen	'	1	
1	1		fluorine fluoride chlorine cl chloride	1		
1	1		bromine br bromide iodine iodide astatine			
1	1		(astatide at) ) and (scandium sc yttrium Y	r .		
1	1		. lanthanum La cerium ce praseodymium pr			
,	1		neodymium nd promethium pm samarium sm	!	1	
			curopium eu gadolinium gd terbium tb	1		
			dysprosium dy holmium ho erbium er thulium	1		
1	1		tm ytterbium yb lutetium lu) with (halide	1		
1			halogen fluorine fluoride chlorine cl			
1	,		chloride bromine br bromide iodine iodide	1	.1.	
1			astatine astatide at)) and (cesium cs)			1
1			with (halide halogen fluorine fluoride			
	- 1		, chlorine cl chloride bromine br bromide	'	1	
	1		, iodine iodido astatine astatide at) and		1	
	1		(color adj rendering adj index CRI	1		
1	1		"R.sub.a") with ("80" "85" "90" "95"	1	T.	
1.	,		"100")) and (( (thallium 'F1) with (halide	1	1	
1	1		halogen fluorine fluoride chlorine cl	i		
	- 1		'chloride bromine br bromide iodine iodide	1		
1	1		'astatine astatide at) and (sodium na) with		,	
			'(halide halogen fluorine fluoride chlorine		1	
	1		'cl chloride bromine br bromide iodine		1	
	3.		Lodide astatine astatide at) and		1	
	1		(beryllium be magnesium mg calcium ca	1		
1	1		strontium or barium ba radium ra) with	1	1	
			(halide halogen fluorine fluoride chlorine	1	1	
1	1		cl chloride bromine br bromide jodine			
1	1		, iodide astatine astatide at) ) and	1	÷	
1	1		(scandium sc yttrium Y lanthanum La cerium			
1	1		.cc praseodymium pr neodymium nd promethium	T.		
1	1		pm samarium sm europium cu gadolinium gd	1	1	1
1				1	1	
1	1		terbium the dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu)	I .	1	
1	1		with (halide halogen fluoring fluoring		1	
Search	listo	ory-	with (halide halogen fluorine fluoride 10/chi/Grine Chi ChiBride BA9mine br bromide	7	F =	
		\worke	pagedNO966EEEENSWeststatine astatide at)) and			
o. mir	. o (cast		(casium ce) with (balide balager (1	1	1	
1			(cesium cs) with (halide halogen fluorine	1	Ť	

r	2	((ceramic alumina sapphire polycrystalline	USPAT;	2003/06/19 14:12
1	1	adj "Al.2 O.sub.3") and lamp.ti.ab. and	US-PGPUB;	
1	1	mercury) and (thallium T1) with (halide	EPO; JPO;	1
1	2.	halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide	DERWENT; IBM TDB	1
1	i	astatine astatide at) and (sodium na) with	1 100	1
f .	1	(halide halogen fluorine fluoride chlorine		
1	1	cl chloride bromine br bromidc iodinc		
		(iodide astatine astatide at) and	ì	4
	-1	(beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with	1	1
	i	(halide halogen fluorine fluoride chlorine		Τ. Τ.
	1	cl chloride bromine br bromide iodine	1	1
1	1	iodide astatine astatide at) and		
1	1	'(scandium sc yttrium Y lanthanum La cerium		1
1		ce praseodymium pr neodymium nd promethium	1	T .
		pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium	!	T
1	1.	er thulium tm ytterbium yb lutetium lu)		1
ı		with (halide halogen fluorine fluoride	1	
1	1	chloring cl chloride bromine br bromide	1	1
1	1	iodine iodide astatine astatide at) and		<u></u>
í.	,	(cesium cs) with (halide halogen fluorine	1	
ı		fluoride chlorine cl chloride bromine br		
	1	bromide iodine iodide astatine astatide at) and (color adj rendering adj index CRI	İ	(3)
1	1	"R.sub.a" "Ra") not (((( (ceramic alumina	E.	1
1	1	sapphire polycrystalline adj "Al.2	1	1
		(O.sub.3") and lamp.ti,ab. and mercury and	1	1
	1	(thallium Tl) with (halide halogen		. I
	1	fluorine fluoride chlorine cl chloride		1
		bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide	1	1
	1	halogen fluorine fluoride chlorine cl		1
	1	chloride bromine br bromide iodine iodide	1	1 2
1	į.	astatine astatide at) and (beryllium be	1	1
i	i	magnesium mg calcium ca strontium sr		1
į.		barium ba radium ra) with (halide halogen	1	1
1		fluorine fluoride chlorine cl chloride		1
	1	bromine br bromide Iodine iodide astatine astatide at) ) and (scandium sc yttrium Y	I	i .
	1	lanthanum La cerium ce prascodymium pr		4
	1	neodymium nd promethium pm samarium sm	Y.	1
		europium eu gadolinium gd terbium tb	1	1
		dysprosium dy holmium ho erbium er thulium	4	4
		tm ytterbium yb lutetium lu) with (halide		
1		halogen fluorine fluoride chlorine cl		1
I.	1	chloride bromine br bromide iodine iodide astatine astatide at)) and (cesium cs)		1
1	1	with (halide halogen fluorine fluoride		1
1	1	chloring of chloride bromine br bromide	1	i
	1	iodine iodide astatine astatide at) and	1	1
	1	(color adj rendering adj index CRI	I	
	1	"R.sub.a") with ("80" "85" "90" "95"   "100")) and (( (thallium Tl) with (halide	1	1
		halogen fluorine fluoride chlorine cl	Y	1
		chloride bromine br bromide iodine iodide		
		astatine astatide at) and (sodium na) with		1
i		(halide halogen fluorine fluoride chlorine	1	1
L		cl chloride bromine br bromide iodine	i c	1
ı		iodide astatine astatide at) and (beryllium be magnesium mg calcium ca	L	1
I	1	strontium of magnesium mg carcium ca strontium or barium ba radium ra) with	7	1
	1	(halide halogen fluorine fluoride chlorine		1
	1	cl chloride bromine br bromide iodine		1
1	1	iodide astatine astatide at) ) and		1
	1	(scandium sc yttrium Y lanthanum Ta cerium	1	1
	1	ce prascodymium pr neodymium nd promethium		1
1		pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium	1	Ī
	1	er thulium tm vtterbium vb lutetium lu)	i	1
pr - m-	. 4 /	with (halide halogen fluorine fluoride -		the same is
Search I	History 10	with (halide halogen fluorine fluoride Childrine di Childride BASMmine br bromide		
C:\APPS'	\east\workspa	cassNine6833313134svspstatine astatide at)) and		1
1	1	(cesium cs) with (halide halogen fluorine	1	1

-	658	((313/486) or (313/487) or	USPAT;	7003/06/19	14:49
	1 76	(313/640)).CCLS.	US-PGPUB	, 2003/06/19	
			USPAT; US-PGPUB	2003/06/19	14:49
. –	ı	("185 not 1182").PN.	USPAT; US-PGPUB	2003/06/19	14:50
-	ı 55	((313/641).CCLS.) not (((313/486) or	USPAT;	2003/06/19	14:50
	1	(313/487) or (313/640)).CCLS.)	US-PGPUB; EPO; JPO;		
I	T. C.	Ī.	DERWENT;	1	
1_	22044	debie demon & de l'account description	IBM_TDB USPAT;	2003/10/13	16.45
1	27044	dakin-james-t.in. leonard-james-a.in. mucklejohn-stuart-a.in.	· US-PGPUB;	2003/10/13	16:45
I.	1	ormandlaky-gergely.in.	EPO; JPO;	1	
	1	general-electric-company.as.	DERWENT;		
-	2988	(dakin-james-t.in. leonard-james-a.in.	USPĀT;	2003/10/13	16:46
	1	mucklejohn-stuart-a.in. ormandlaky-gergely.in.	US-PGPUH; EPO; JPO;	1	
	1	general-electric-company.as.) and (lamp	DERWENT;		
1 -	3018	luminarie light).ab,ti,clm. (dakin-james-t.in. leonard-james-a.in.	IBM_TDB USPAT;	2003/10/13	16.16
	1 3010	mucklejohn-stuart-a.in.	US-PGPUB;		10.40
	1	ormandlaky-gergely.in.	EPO; JPO; DERWENT;	1	
1	1	general-electric-company.as.) and (lamp luminaire light).ab,ti,clm.	IBM TDB		
-	ı 69	((dakin-james-t.in. leonard-james-a.in.	USPĀT;	2003/10/13	16:47
	1	mucklejohn-stuart-a.in.   ormandlaky-gergely.in.	US-PGPUB; EPO; JPO;	i	
	1	general-electric-company.as.) and (lamp	DERWENT;	1.	
i	I .	'luminaire light).ab,ti,clm.) and (sodium Na) and (Tl thallium)	, IBM_TDB	1	
	54	((dakin-james-t.in. leonard-james-a.in.	USPAT;	12003/10/13	16:48
1	1	mucklejohn-stuart-a.in. ormandlaky-gergely.in.	US-PGPUB; EPO; JPO;	T.	
i	1	general-electric-company.as.) and (lamp	DERWENT;	1	
1	7	luminaire light).ab,ti,clm.) and (sodjum Na) and (Tl thallium) and (mercury Hg)	IBM_TDB	i	
-	1 20	(((dakin-james-t.in. Leonard-james-a.in.	USPAT;	2003/10/13	16:49
I.	1	, mucklejohn-stuart-a.in. , ormandlaky-gergely.in.	US-PGPUB;	1	
1		general-electric-company.as.) and (lamp	, EPO; JPO; DERWENT;	T.	
	1	luminaire light).ab,ti,clm.) and (sodium	IBM_TDB	1	
	1	Na) and (Tl thallium) and (mercury Hg))   and (chlorine Cl bromine Br Iodine)	1	T.	
-	, 3	, (((dakin-james-t.in. leonard-james-a.in.	USPAT;	: 2003/10/13	16:50
		mucklejohn-stuart-a.in. ormandlaky-gergely.in.	US-PGPUB; EPO; JPO;		
ı		general-electric-company.as.) and (lamp	DERWENT;	1	
1		: luminaire light).ab,ti,clm.) and (sodium Na) and (Tl thatlium) and (mercury Hg))	IBM_TDB	1	
		and (chlorine Cl bromine Br Iodine) and	1	1	
-	1 2	'(rare adj earth) '(((dakin-james-t.in. leonard-james-a.in.	USPAT;	2003/10/13	16:50
	1	mucklejohn-stuart-a.in.	US-PGPUB;	, 2003, 10, 13	.0.50
	1	ormandlaky-gergely.in. general-electric-company.as.) and (lamp	EPO; JPO; DERWENT;		
		luminaire light).ab,ti,clm.) and (sodium	1BM_TDB	1	
		Na) and (Tl thailium) and (mercury Hg)) and (chlorine Cl bromine Br Iodine) and	4	1	
	1	(rare adj earth) and (percent "%")	1	r	
-	2	(((dakin-james-t.in. leonard-james-a.in. mucklejohn-stuart-a.in.	USPAT;	2003/10/13	16:51
	1	ormandlaky-gergely.in.	US-PGPUB; EPO; JPO;	1	
	1	general-electric-company.as.) and (lamp	DERWENT;	i .	
	1	luminaire light).ab,ti,clm.) and (sodium   Na) and (Tl thallium) and (mercury Hq))	'IBM_TDB	1	
		and (chlorine Cl bromine Br Iodine) and	1	1	
	<del>-</del>	(rare adj earth) and (percent "%")		!	- '

r -		2	(((dakin-james-t.in, lconard-james-a.in.	USPAT;	12003/10/13 16:59
1	,		'mucklejohn-stuart-a.in.	US-PGPUB;	,
	4.		ormandlaky-gergely.in.	EPO; JPO;	. 1
				DERWENT;	:
1			general-electric-company as.) and (lamp		
	1		luminaire Light).ab,ti,clm.) and (sodium	IBM_TDB	
1			Na) and (Tl thallium) and (mercury Hg))		1
1	1		and (chlorine Cl bromine Br [odine) and	i	
			(rare adj earth) and (percent "%") and		1
1	'		ratio	1	
				Lucaso	10000 40 413 16:50
-		0	(((dakin-james-t.in. leonard-james-a.in.	USPAT;	2003/10/13 16:59
1			mucklejohn-stuart-a.in.	US-PGPUB;	
1			ormandlaky-gorgely.in.	EPO; JPO;	· · · · · · · · · · · · · · · · · · ·
1			general-electric-company.as.) and (lamp	DERWENT;	A.
1	1			IBM TDB	
			luminaire light).ab,ti,clm.) and (sodium	TDM_TDB	1
1	1		Na) and (Tl thallium) and (mercury Hg))	1	
1			and (chlorine Cl bromine Br Todine) with		1
			(thallium Tl) and (rare ad) earth) and		-1
1	1		(percent "%") and ratio	1	1
1		2		USPAT:	2003/10/13 17:04 I
-	1		(((dakin-james-t.in. leonard-james-a.in.		2003/10/13 17:04 1
1	1		mucklejohn-stuart-a.in.	US-PGPUB;	
1			ormandlaky-gergely.in.	EPO; JPO;	, ,
	1		general-electric-company.as.) and (lamp	DERWENT;	
1.			luminaire light).ab,ti,clm.) and (sodium	TBM_TDB	
1			No. and (01 the 11 in and (manager Hall)	1	
			Na) and (Tl thallium) and (mercury Hg))		
			and (chlorine Cl bromine Br Todine) same	1	î .
1			(thallium Tl) and (rare adj earth) and		
			(percent "%") and ratio	1	1
1 _	1	2	(((dakin-james-t.in. leonard-james-a.in.	USPAT;	2003/10/13 17:14
1 -				US-PGPUB;	2003/10/13 17:14
1			mucklejohn-stuart-a.in.		
	1		ormandlaky-gergely.in.	EPO; JPO;	1
1			general-electric-company.as.) and (lamp	DERWENT;	· I
1			luminaire light).ab, ti, clm.) and (sodium	IBM TDB	i
	1		Na) and (Tl thallium) and (mercury Hg))		A contract of
1				1	1
1			and (chlorine Cl bromine Br Iodine) same		
	1		(thallium Tl) and (rare adj earth) and	1	1
	1		(percent "%") and ratio and (sodium na)	-9	I .
' -		930	((313/486) or (313/487) or (313/636) or	USPAT	2003/10/13 18:17
	1		(313/640) or (313/641)).CCLS.		
		4.0		HO DODUD	. 2002/10/12 13:41
1 =	'		((313/486) or (313/487) or (313/636) or	US-PGPUB	2003/10/13 17:41
	1		(313/640) or (313/641)).CCLS.	1	1 1
-	1	8	(((313/486) or (313/487) or (313/636) or	USPAT;	2003/10/13 17:42
			(313/640) or (313/641)).CCLS.) and	US-PGPUB;	1
	1		(thallium Tl)	EPO; JPO;	
1			( CHOILEON LE)		5 1
1				DERWENT;	1 1
				'IBM_TDB	
-	1	5	(((313/486) or (313/487) or (313/636) or	USPAT;	2003/10/13 17:43
1			(313/640) or (313/641)).CCLS.) and	. US-PGPUB;	
	1		(thallium Tl) and (sodium Na)	EPO; JPO;	. 1
	1			DERWENT;	
1					4
1	1	_		IBM_TDB	Lancoura in a - T
		3	(((313/486) or (313/487) or (313/636) or	USPAT;	2003/10/13 17:43
1			(313/640) or (313/641)).CCLS.) and	US-PGPUB;	1
1			(thallium Tl) and (sodium Na) and (mercury	EPO; JPO;	
1	1		Hg)	DERWENT;	
	1		1197	IBM TOB	
1			\		
1 -	,		. (US-6614103-\$ or US-6614165-\$ or	USPAT	2003/10/13 18:17
1	1		US-6613247-\$ or US-6617789-\$ or		1
			US-6621208-\$ or US-6627112-\$ or	1	, and a second of the second o
1			US-6617781-\$ or US-6617782-\$ or	1	
1	1		US-6570328-\$ or US-6573654-\$ or	1	
10	1				r I
			US-6576157-\$ or US-6583563-\$ or	1	1 7
	,		US-6585912-\$ or US-6590333-\$ or		
1			US-6592780-\$ or US-6593694-\$ or		1
1	1		US-6603258-\$ or US-6600260-\$ or		
			US-6597116-\$ or US-6597104-\$ or	,	
1			US-6596196-\$ or US-6617788-\$ or		1
1					
1 1 - 1	and the	0	US-6613248-\$).did.		

		3 " ((US-6614103-s or US-6614165-s or		1 2003710/13 18:18
	1	US-6613247-\$ or US-6617789-\$ or	USPAT;	1 2003/10/13 16:18
1	7	US-6621208-\$ or US-6627112-\$ or	US-PGPUB;	1
1			EPO; JPO;	
	1	US-6617781-\$ or US-6617782-\$ or	DERWENT;	i
1		US-6570328-\$ or US-6573654-\$ or	IBM TDB	1
1		US-6576157-\$ or US-6583563-\$ or		
	1	US-6585912-\$ or US-6590333-\$ or	1	T.
		US-6592780-\$ or US-6593694-\$ or		
1	1	US-6603258-\$ or US-6600260-\$ or	1	:
		US-6597116-\$ or US-6597104-\$ or		
1		US-6596196-\$ or US-6617788-\$ or		1
1	1	US-6613248-\$).did.) and (thallium Tl TLI)	1	1
		2 ((US-6614103-\$ or US-6614165-\$ or	USPAT;	2003/10/13 18:20
1		US-6613247-\$ or US-6617789-\$ or	US-PGPUB;	1
1	1	US-6621208-\$ or US-6627112-\$ or	, EPO; JPO;	
		'US-6617781-\$ or US-6617782-\$ or	DERWENT;	-
1		US-6570328-\$ or US-6573654-\$ or	IBM_TDB	1
7	1	US-6576157-\$ or US-6583563-\$ or	1	
,	1	"US-6585912-\$ or US-6590333-\$ or		1
1		US-6592780-\$ or US-6593694-\$ or	İ	
	1	US-6603258-\$ or US-6600260-\$ or		T.
	1	US-6597116-\$ or US-6597104-\$ or	1	
1		US-6596196-\$ or US-6617788-\$ or	1	
1		US-6613248-\$).did.) and (thallium Tl TLT)		i .
	1	, and mercury and (sodium na)		1
1 =		1 ((US-6614103-\$ or US-6614165-\$ or	USPAT;	2003/10/13 18:22
		US-6613247-\$ or US-6617789-\$ or	US-PGPUB;	
	1	! US-6621208-\$ or US-6627112-\$ or	EPO; JPO;	1
		US-6617781-\$ or US-6617782-\$ or	DERWENT;	
		US-6570328-\$ or US-6573654-\$ or	TBM TDB	•
	i	US-6576157-\$ or US-6583563-\$ or	,	T.
1		US-6585912-\$ or US-6590333-\$ or	1	1
		US-6592780-\$ or US-6593694-\$ or	I .	f .
	1	US-6603258-\$ or US-6600260-\$ or	I.	
1	1	US-6597116-\$ or US-6597104-\$ or		
1		US-6596196-\$ or US-6617788-\$ or	1	1
	1	US-6613248-\$).did.) and (thallium Tl TLI)		\$
	1	and mercury and (sodium na) and ratio	1	1
v =	1	1 ((US-6614103-\$ or US-6614165-\$ or	USPAT;	2003/10/13 18:35
		US-6613247-\$ or US-6617789-\$ or	US-PGPUB;	
1	'	US-6621208-\$ or US-6627112-\$ or	EPO; JPO;	
1	T	US-6617781-\$ or US-6617782-\$ or	DERWENT:	1
		US-6570328-\$ or US-6573654-\$ or	IBM TDB	0
		US-6576157-\$ or US-6583563-\$ or	1 200	1
1	4	US-6585912-\$ or US-6590333-\$ or	t.	1
	1	US-6592780-\$ or US-6593694-\$ or	T.	
	1	US-6603258-\$ or US-6600260-\$ or	i i	
1		US-6597116-\$ or US-6597104-\$ or	1	1
1	1	US-6596196-\$ or US-6617788-\$ or	1	i
	1	US-6613248-\$).did.) and (thallium Tl TLI)		
1	1.1	and mercury and (sodium na) and ratio and		
T		(alkaline beryllium magnesium calcium	1	
1		strontium barium radium be mg ca sr ba ra)	9	
	1	0 ((US-6614103-\$ or US-6614165-\$ or	USPAT;	2003/10/13 18:24
	1	US-6613247-\$ or US-6617789-\$ or	US-PGPUB;	2003/10/13 10.24
1	1	US-6621208-\$ or US-6627112-\$ or	EPO; JPO;	
	1	US-6617781-\$ or US-6617782-\$ or	DERWENT;	
	1	US-6570328-\$ or US-6573654-\$ or	I IBM TDB	
1		US-6576157-\$ or US-6583563-\$ or	· 701/ 100	1
1		US-6585912-\$ or US-6590333-\$ or		
4	1	US-6592780-\$ or US-6593694-\$ or	1	
i i	1	US-6603258-\$ or US-6600260-\$ or	1	1
	1	US-6597116-\$ or US-6597104-\$ or		i
1	i i	US-6596196-\$ or US-6617788-\$ or	5	1
1		US-6613248-\$).did.) and (thallium T1 TLI)	1	
	1	and mercury and (sodium na) and ratio and		1
	1	, (alkaline boryllium magnesium calcium		I.
1		strontium barium radium ca sr ba ra)	1	
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			TANK ALLEGER LANGUAGE AND A TON A TON		0000740745	40 057
	1.0	443	(lamp luminaire light).ab,ti,clm. and	USPAT;	2003710/13	18:35
	1		(thallium Tl TLI) and mercury and (sodium na) and (molar mole) and (alkaline	US-PGPUB;		
	1		bervilium magnesium calcium strontium	EPO; JPO; DERWENT;	!	1
4			, barium radium be mg ca sr ba ra)	IBM TDB	1	
	,	71	(lamp luminaire light), ab, ti, clm, and	USPAT;	2003/10/13	10.26
	1		(thallium Tl TLI) and (mercury hg) and	US-PGPUB;	1 2003/10/13	10.30
!	1		(sodium na) and (molar mole) and (alkaline	EPO: JPO:	i	
			beryllium magnesium calcium strontium	DERWENT;		1
	1		barium radium be mg ca sr ba ra) and	IBM TDB	1	'
1			percent with ratio	11		i
^ _		391	(lamp luminaire light).ab,ti,clm. and	USPAT;	2003/10/13	18:36
	1		(thallium Tl TLI) and (mercury hg) and	US-PGPUB:		:
ī			(sodium na) and (molar mole) and (alkaline	EPO: JPO:	1	1
1			bervllium magnesium calcium strontium	DERWENT:	1	
			barium radium be mg ca sr ba ra) and	1BM TDB		1
	,		(fluorine chlorine bromine iodine)	-		1
	1	372	(lamp luminaire light).ab, ti, clm. and	USPAT;	2003/10/13	18:40
			(thallium T) TL1) and (mercury hg) and	US-PGPUB;		i
Į.	,		(sodium na) and (molar mole) and (alkaline	EPO; JPO;	1	
	1		beryllium magnesium calcium strontium	DERWENT;		1
			barium radium be mg ca sr ba ra) and	IBM_TOB	1	
1			(fluorine chlorine bromine iodine) and	. –		-
	1		(halide halogen)	1	L	
-	1		(lamp luminaire light).ab,ti,clm. and (TLF		2003/10/14	10:40
1			TLCl TLBr TLI) and (mercury hg) and	US-PGPUB;		
1			(sodium na) and (molar mole) and (alkaline	EPO; JPO;		1.
			beryllium magnesium calcium strontium	: DERWENT;		
			barium radium be mg ca sr ba ra) and	IBM_TDB	1	1
1	1		(fluorine chlorine bromine iodine) and	!	1	
i			(halide halogen)	1		ï
		3	(lamp luminaire light).ab,ti,clm. and (TLF	USPAT;	2003/10/14	11:14
1	1		TLC1 TLBr TLI) and (mercury hg) and	US-PGPUB;		4
1			(sodium na) and (molar mole) and	EPO; JPO;	1	i
1			"MgI.sub.2" "MgF.sub.2" "MgCl.sub.2" "MgBr.sub.2" "CaI.sub.2" "CaF.sub.2"	DERWENT;	T	
			"CaCl.sub.2" "CaBr.sub.2" "SrJ.sub.2"	IBM_TDB	i .	
1			"SrF.sub.2" "SrCl.sub.2" "SrBr.sub.2"		1	1
			"BaI.sub.2" "BaF.sub.2" "BaCl.sub.2"	1	1.	
Î.			"BaBr.sub.2" "BeI.sub.2" "BeF.sub.2"	1		i
1			"BeCl.sub.2" "BeBr.sub.2" "RaI.sub.2"	1		1
i.	1		"RaF.sub.2" "RaCl.sub.2" "RaBr.sub.2") and		1	
-			(fluorine chlorine bromine iodine) and	1	I .	1
	1		(halide halogen)	1		
	i i	1189	Zirconium near3 rare adj earth	USPAT:	2003/10/13	19.24
1				US-PGPUB;	1 2303/10/13	
	7			EPO; JPO;		
	1			DERWENT:		
1	1			IBM TDB	I .	J
		97 '	hafnium near2 rare adj earth	USPAT	2003/10/13	19:24 i
-			(lamp luminaire light).ab,ti,clm. and (TLF	USPAT;	2003/10/14	
T	4		TLC1 TLBr TL1) and (mercury hg) and	· US-PGPUB;		
1			(sodium na) and (molar mole) and (alkaline	EPO; JPO;	Ī	
	1	,	beryllium magnesium calcium strontium	DERWENT;		1
	1		barium radium be mg ca sr ba ra) and	IBM TOB	*	1
			(fluorine chlorine bromine iodine) and		I .	
			(halide halogen)			.1.
777						

(d)		500 V0056010060505 15V4 V006000 05 15 TE	11000	12003/10714 10:51
-	'	98 (US-5013968-\$ or US-4810938-\$ or		1 2003/10/14 10:51
	1	US-6597116-\$ or US-6583563-\$ or	US-PGPUB	1
	1	US-6528946-\$ or US-6436313-\$ or		1
of the	T	US-6400084-\$ or US-6392346-\$ or	1	The state of the s
1	1	US-6362569-\$ or US-6323585-\$ or	1	1
		US-6200918-\$ or US-6184618-\$ or		1
,		US-6147453-\$ or US-6107742-\$ or	,	` i
1	1	US-5973454-\$ or US-5916482-3 or	1	1
	1	US-5866981-\$ or US-5861714-\$ or		
		US-5729090-\$ or US-5698948-\$ or	1	
	1		1	9
	- 1	US-5631522-\$ or US-5631201-\$ or		
1		US-5512800-\$ or US-5479065-\$ or	1	1
	1	US-5451838-\$ or US-5451553-\$).did. or	T.	
	1	(US-5323085-\$ or US-5289081-\$ or		· ·
1		US-5239232-8 or US-5225/33-8 or	'	
		US-5194332-\$ or US-5122710-\$ or	1	1
	1.	US-5105121-\$ or US-5099174-\$ or	1	
1	1			i .
1		US-5075587-\$ or US-4963787-\$ or	1	1
		US-4926091-\$ or US-4847533-\$ or	1	. 1
	7	US-4841195-\$ or US-4837481-\$ or		1
1		US-4810930-\$ or US-4806825-\$ or	1	
		US-4801846-\$ or US-4757233-\$ or		
1.	1	US-4748391-S or US-4736136-S or		1
		US-4716336-\$ or US-4716335-\$ or	1	. 1
1		US-4663563-\$ or US-4590405-\$ or		4
	1		1	**
		(US-4503356-\$ or US-4439711-\$ or		1
		US-4422007-\$).did. or (US-4243909-\$ or	1	1
1	1	US-4229673-\$ or US-4216408-\$ or	1	1
	1	US-4185222-\$ or US-4122042-\$ or		1
		US-4093890-s or US-4049992-s or		1
	-	US-4007394-s or US-3959682-s or	i	
1	1			1
1		US-3937998-\$ or US-3912959-\$ or	1	
		US-3852630-\$ or US-3842307-\$ or	1	1
1	i	US-3832591-\$ or US-3793046-\$ or		1
1	1	'US-3786297-\$ or US-3761758-\$ or	1	1
		US-3737331-\$ or US-3670194-\$ or		
		US-3651363-\$ or US-3639801-\$ or	1	1
1	1	US-3615756-s or US-3564328-\$ or	i .	The second secon
1	1		1	
1		US-3555337-\$ or US-6483241-\$ or		'
		US-6069456-\$ or US-5363007-\$).did. or	1	1
1	1	(US-6469446-\$ or US-6184849-\$ or	1	
1	1	US-5828356-\$ or US-4445067-\$ or	T.	'
1		US-3979624-\$).did. or (US-20020145379-\$ or		1 1
1		US-20020113554-\$ or US-20020063511-\$ or	1	
	1	US-20020047526-s or US-20010033133-s or		
1	1			2 1
1		US-20010004191-\$ or US-20030015949-\$ or	1	T. I
1	1	US-20030062831-\$ or US-20030025455-\$ or	1	
	1	US-20030006705-\$ or US-20020185979-\$ or		
1	1	US-20020185973-\$ or US-20020179859-\$).did.		A
1 =	1	13 (US-3821577-\$ or US-3796585-\$ or	USOCR	2003/10/14 10:51:
į		US-3574645-\$ or US-3569762-\$ or	1	
1		US-3545987-s or US-3530327-s or		
		US-3430089-\$ or US-3379916-\$ or		Tr. I
			1	i i
1	1	US-3351796-\$ or US-3219869-\$ or	1	
1	1	'US-2965786-\$ or US-2899584-\$ or		
	1	US-2805166-\$).did.	1	1
		11: (lamp luminaire light).ab, ti, clm. and (TLF	· USPAT:	2003/10/14 15:03
		TLC1 TLBr TLT) and (mercury hg) and (NaI	US-PGPUB;	
1		NaF NaCl NaBr (sodium na) near5 (halide))	EPO; JPO;	
1		and (molar mole) and ("MgT.sub.2"		1
1	1		DERWENT;	1
		"MgF.sub.2" "MgCl.sub.2" "MgBr.sub.2"	IBM_TDB	
1		"Cal.sub.2" "Caf.sub.2" "CaCl.sub.2"	1	· *
	1	"CaBr.sub.2" "Srl.sub.2" "StF.sub.2"	1	
1	1	"SrCl.sub.2" "SrBr.sub.2" "Bal.sub.2"	1	7
1	1	"BaF.sub.2" "BaCl.sub.2" "BaBr.sub.2"		The state of the s
	1	"BeI.sub.2" "BeF.sub.2" "BeCl.sub.2"	1	1
		"BeBr.sub.2" "RaI.sub.2" "RaF.sub.2"	1	1
1			1	1
1	1	"RaCl.sub.2" "RaBr.sub.2") and (rare adj	i	· 1
1	L _	earth)		'